Part No.	Replacement No.	Mfr.
TMPF3331		
	2N3331	2
	2N5270	3 INL
	THJ3331	3 SPR
	TP3331	3 SPR
TMPF3332		
	2N3332	2
	2N3330	3 MOTA
	2N5268	3 INL
	THJ3332	3 SPR
	TP3332	3 SPR
TMPF3369		
	2N3369	2
	2N3460	3 IFC
	2N4339	3 INL
		MOTA
	2N4340	3 SIX
	THJ3369	3 SPR
	TP3369	3 SPR
TMPF3370		
	2N3370	2
	2N3460	3 IFC
	2N4338	3 INL
	2N4339	3 SIX
	THJ3370	3 SPR
	TP3370	3 SPR
TMPF3458		
	2N3458	2
	2N4341	3 INL
		SIX
	BFW10	3 PHIN
	THJ3458	3 SPR
	TP3458	3 SPR
TMPF3459		
	2N3459	2
	2N4339	3 INL
	2N4341	3 SIX
	BFW12	3 PHIN
	THJ3459	3 SPR
	TP3459	3 SPR
TMPF3460		
	2N3460	2
	2N4338	3 INL
	2N4340	3 SIX
	BFW12	3 PHIN
	THJ3460	3 SPR
	TP3460	3 SPR
TMPF3819		
	2N3819	2
	2N5484	3 INL
	BF245C	3 PHIN
	MPF108	3 MOTA
	THJ3819	3 SPR
TMPF3820		
	2N3820	2
	2N2608	3 INL
	DE326	3 DGE
	J270	3 SIX
	MPF161	3 MOTA
	THJ3820	3 SPR
	TP3820	3 SPR
TMPF3821		
	2N3821	2
	BFW13	3 PHIN
	DE456	3 DGE
	THJ3821	3 SPR
	TP3821	3 SPR
TMPF3822		
	2N3822	2
	BFW11	3 PHIN
	DE459	3 DGE
	THJ3822	3 SPR
	TP3822	3 SPR
TMPF3823		
	2N3823	2
	DE459	3 DGE
	THJ3823	3 SPR
	TP3823	3 SPR
TMPF3824		
	2N3824	2
	BFW10	3 PHIN
	DE459	3 DGE
	THJ3824	3 SPR
	TP3824	3 SPR
TMPF3966		
	2N3966	2
	2N4416	3 INL
	THJ3966	3 SPR
	TP3966	3 SPR
TMPF3967		
	2N3967	2
	2N3822	3 IFC
	2N4221	3 INL
		SIX
	2N4222A	3 MOTA
	THJ3967	3 SPR
	TP3967	3 SPR
TMPF3967A		
	2N3967A	2
	2N3822	3 IFC
	2N4221	3 INL
		SIX
	2N4222A	3 MOTA
	THJ3967A	3 SPR

Part No.	Replacement No.	Mfr.
TMPF3967A (Cont'd)		
	TP3967A	3 SPR
TMPF3968		
	2N3968	2
	2N3685	3 INL
	2N3822	3 IFC
	2N4221A	3 MOTA
	2N4339	3 SIX
	THJ3968	3 SPR
	TP3968	3 SPR
TMPF3968A		
	2N3968A	2
	2N3685	3 INL
	2N3821	3 IFC
	2N4221A	3 MOTA
	2N4339	3 SIX
	THJ3968A	3 SPR
	TP3968A	3 SPR
TMPF3969		
	2N3969	2
	2N3686	3 INL
	2N3821	3 IFC
	2N4220A	3 MOTA
	2N4339	3 SIX
	THJ3969	3 SPR
	TP3969	3 SPR
TMPF3969A		
	2N3969A	2
	2N3686	3 INL
		SIX
	2N3821	3 IFC
	2N4220A	3 MOTA
	THJ3969A	3 SPR
	TP3969A	3 SPR
TMPF3970		
	2N3970	2
	2N4391	3 PHIN
	THJ3970	3 SPR
	TP3970	3 SPR
TMPF3971		
	2N3971	2
	2N4392	3 PHIN
	THJ3971	3 SPR
	TP3971	3 SPR
TMPF3972		
	2N3972	2
	2N4393	3 PHIN
	THJ3972	3 SPR
	TP3972	3 SPR
TMPF3993		
	2N3993	2
	2N3386	3 SIX
	2N5116	3 NSC
		SIX
	DE160	3 DGE
	THJ3993	3 SPR
	TP3993	3 SPR
TMPF3994		
	2N3994	2
	2N3382	3 SIX
	2N5116	3 NSC
		SIX
	DE160	3 DGE
	THJ3994	3 SPR
	TP3994	3 SPR
TMPF4091		
	2N4091	2
	DE466	3 DGE
	THJ4091	3 SPR
	TP4091	3 SPR
TMPF4092		
	2N4092	2
	DE466	3 DGE
	THJ4092	3 SPR
	TP4092	3 SPR
TMPF4093		
	2N4093	2
	DE466	3 DGE
	THJ4093	3 SPR
	TP4093	3 SPR
TMPF4117		
	2N4117	2
	THJ4117	3 SPR
	TP4117	3 SPR
TMPF4118		
	2N4118	2
	THJ4118	3 SPR
	TP4118	3 SPR
TMPF4119		
	2N4119	2
	THJ4119	3 SPR
	TP4119	3 SPR
TMPF4220		
	2N4220	2
	BFW13	3 PHIN
	DE456	3 DGE
	THJ4220	3 SPR
	TP4220	3 SPR
TMPF4221		
	2N4221	2
	BFW12	3 PHIN
	DE456	3 DGE
	THJ4221	3 SPR
	TP4221	3 SPR

Part No.	Replacement No.	Mfr.
TMPF4222		
	2N4222	2
	BFW11	3 PHIN
	DE312	3 DGE
	THJ4222	3 SPR
	TP4222	3 SPR
TMPF4223		
	2N4223	2
	BFW11	3 PHIN
	DE312	3 DGE
	THJ4223	3 SPR
	TP4223	3 SPR
TMPF4224		
	2N4224	2
	BFW61	3 PHIN
	DE161	3 DGE
	THJ4224	3 SPR
	TP4224	3 SPR
TMPF4302		
	2N4302	2
	2N5337	3 MOTA
	2N5953	3 IFC
	BF245C	3 PHIN
	DE457	3 DGE
	PN4302-18	3 NSC
		SIX
	THJ4302	3 SPR
	TP4302	3 SPR
TMPF4303		
	2N4303	2
	2N5338	3 MOTA
	2N5459	3 INL
	2N5952	3 IFC
	BF245B	3 PHIN
	DE457	3 DGE
	PN4303-18	3 NSC
		SIX
	THJ4303	3 SPR
	TP4303	3 SPR
TMPF4304		
	2N4304	2
	2N5338	3 MOTA
	2N5458	3 INL
	2N5951	3 IFC
	BF245A	3 PHIN
	DE457	3 DGE
	PN4304-18	3 NSC
		SIX
	THJ4304	3 SPR
	TP4304	3 SPR
TMPF4338		
	2N4338	2
	2N3460	3 IFC
	BFW13	3 PHIN
	DE312	3 DGE
	THJ4338	3 SPR
	TP4338	3 SPR
TMPF4339		
	2N4339	2
	BFW13	3 PHIN
	DE312	3 DGE
	THJ4339	3 SPR
	TP4339	3 SPR
TMPF4340		
	2N4340	2
	2N3459	3 IFC
	BFW12	3 PHIN
	DE459	3 DGE
	THJ4340	3 SPR
	TP4340	3 SPR
TMPF4341		
	2N4341	2
	2N3458	3 IFC
	BFW11	3 PHIN
	DE312	3 DGE
	THJ4341	3 SPR
	TP4341	3 SPR
TMPF4381		
	2N4381	2
	2N2609	3 INL
		MOTA
		SIX
	DE326	3 DGE
	THJ4381	3 SPR
	TP4381	3 SPR
TMPF4391		
	2N4391	2
	DE466	3 DGE
	THJ4391	3 SPR
	TP4391	3 SPR
TMPF4392		
	2N4392	2
	DE466	3 DGE
	THJ4392	3 SPR
	TP4392	3 SPR
TMPF4393		
	2N4393	2
	DE466	3 DGE
	THJ4393	3 SPR
	TP4393	3 SPR
TMPF4416		
	2N4416	2
	DE452	3 DGE
	THJ4416	3 SPR

Part No.	Replacement No.	Mfr.
TMPF4416 (Cont'd)		
	TP4416	3 SPR
TMPF4416A		
	2N4416A	2
	THJ4416A	3 SPR
	TP4416A	3 SPR
TMPF4856		
	2N4856	2
	DE466	3 DGE
	THJ4856	3 SPR
	TP4856	3 SPR
TMPF4856A		
	2N4856A	2
	2N4856	3 INL
	THJ4856A	3 SPR
	TP4856A	3 SPR
TMPF4857		
	2N4857	2
	DE466	3 DGE
	THJ4857	3 SPR
	TP4857	3 SPR
TMPF4857A		
	2N4857A	2
	2N4857	3 INL
	THJ4857A	3 SPR
	TP4857A	3 SPR
TMPF4858		
	2N4858	2
	DE466	3 DGE
	THJ4858	3 SPR
	TP4858	3 SPR
TMPF4858A		
	2N4858A	2
	2N4858	3 INL
	THJ4858A	3 SPR
	TP4858A	3 SPR
TMPF4859		
	2N4859	2
	DE466	3 DGE
	THJ4859	3 SPR
	TP4859	3 SPR
TMPF4859A		
	2N4859A	2
	2N4859	3 INL
	THJ4859A	3 SPR
	TP4859A	3 SPR
TMPF4860		
	2N4860	2
	DE466	3 DGE
	THJ4860	3 SPR
	TP4860	3 SPR
TMPF4860A		
	2N4860A	2
	2N4860	3 INL
	THJ4860A	3 SPR
	TP4860A	3 SPR
TMPF4861		
	2N4861	2
	DE466	3 DGE
	THJ4861	3 SPR
	TP4861	3 SPR
TMPF4861A		
	2N4861A	2
	2N4861	3 INL
	THJ4861A	3 SPR
	TP4861A	3 SPR
TMPF4867		
	2N4220A	3 MOTA
	2N4339	3 NSC
		SIX
	DE459	3 DGE
	THJ4867	3 SPR
	TP4867	3 SPR
TMPF4868		
	2N4868	2
	2N3459	3 NSC
		SIX
	2N4220A	3 MOTA
	DE459	3 DGE
	THJ4868	3 SPR
	TP4868	3 SPR
TMPF4869		
	2N4869	2
	2N4221	3 MOTA
	2N4341	3 NSC
		SIX
	DE459	3 DGE
	THJ4869	3 SPR
	TP4869	3 SPR
TMPF5018		
	2N5018	2
	2N3993	3 MOTA
	DE460	3 DGE
	THJ5018	3 SPR
	TP5018	3 SPR
TMPF5019		
	2N5019	2
	2N3993	3 IFC
	2N3994	3 MOTA
	DE460	3 DGE
	THJ5019	3 SPR
	TP5019	3 SPR
TMPF5020		
	2N5020	2

Part No.	Replacement No.	Mfr.
TMPF5020 (Cont'd)		
	2N2843	3 INL
	2N3329	3 SIX
	2N5265	3 MOTA
	DE460	3 DGE
	THJ5020	3 SPR
	TP5020	3 SPR
TMPF5021		
	2N5021	2
	2N2607	3 INL
	2N2608	3 MOTA
		SIX
	DE460	3 DGE
	THJ5021	3 SPR
	TP5021	3 SPR
TMPF5033		
	2N5033	2
	2N2608	3 SIX
	2N5460	3 INL
		MOTA
	A5T5460	3 IFC
	DE326	3 DGE
	PN5033-18	3 NSC
		SIX
	THJ5033	3 SPR
	TP5033	3 SPR
TMPF5078		
	2N5078	2
	2N4416	3 IFC
	2N5397	3 INL
	DE452	3 DGE
	THJ5078	3 SPR
	TP5078	3 SPR
TMPF5103		
	2N5103	2
	2N4416	3 INL
		MOTA
		SIX
	DE459	3 DGE
	THJ5103	3 SPR
	TP5103	3 SPR
TMPF5104		
	2N5104	2
	2N4116	3 MOTA
	2N4416	3 INL
		SIX
	DE459	3 DGE
	THJ5104	3 SPR
	TP5104	3 SPR
TMPF5105		
	2N5105	2
	2N4116	3 MOTA
	2N4416	3 IFC
		INL
		SIX
	DE459	3 DGE
	THJ5105	3 SPR
	TP5105	3 SPR
TMPF5114		
	2N5114	2
	2N3993	3 MOTA
	THJ5114	3 SPR
	TP5114	3 SPR
TMPF5115		
	2N5115	2
	2N3993	3 MOTA
	THJ5115	3 SPR
	TP5115	3 SPR
TMPF5116		
	2N5116	2
	2N3994	3 MOTA
	THJ5116	3 SPR
	TP5116	3 SPR
TMPF5163		
	2N5163	2
	2N3822	3 INL
	2N5246	3 IFC
	2N5458	3 MOTA
	PN5163-18	3 NSC
		SIX
	THJ5163	3 SPR
	TP5163	3 SPR
TMPF5245		
	2N5245	2
	2N5245-18	3 SIX
	2N5248-18	3 NSC
	DE129	3 DGE
	ITE4416	3 INL
	PN4416	3 SIX
	THJ5245	3 SPR
	TP5245	3 SPR
TMPF5246		
	2N5246	2
	2N5246-18	3 NSC
		SIX
	2N5484	3 INL
	DE132	3 DGE
	J305-18	3 SIX
	THJ5246	3 SPR
	TP5246	3 SPR
TMPF5247		
	2N5247	2
	2N5247-18	3 NSC
		SIX

Part No.	Replacement No.	Mfr.
TMPF5247 (Cont'd)		
	2N5486	3 INL
	DE132	3 DGE
	J304-18	3 SIX
	THJ5247	3 SPR
	TP5247	3 SPR
TMPF5248		
	2N5248	2
	2N5486	3 INL
		SIX
	DE132	3 DGE
	MPF102	3 MOTA
	THJ5248	3 SPR
TMPF5358		
	2N5358	2
	2N4220	3 INL
	2N4340	3 SIX
	BFW13	3 PHIN
	DE459	3 DGE
	THJ5358	3 SPR
	TP5358	3 SPR
TMPF5359		
	2N5359	2
	2N4220	3 INL
	2N4340	3 SIX
	BFW12	3 PHIN
	DE459	3 DGE
	THJ5359	3 SPR
	TP5359	3 SPR
TMPF5360		
	2N5360	2
	2N4221	3 INL
	2N4339	3 SIX
	BFW12	3 PHIN
	DE459	3 DGE
	THJ5360	3 SPR
	TP5360	3 SPR
TMPF5361		
	2N5361	2
	2N4221	3 INL
	2N4339	3 SIX
	DE459	3 DGE
	THJ5361	3 SPR
	TP5361	3 SPR
TMPF5362		
	2N5362	2
	2N4222	3 INL
	2N4339	3 SIX
	BFW11	3 PHIN
	DE459	3 DGE
	THJ5362	3 SPR
	TP5362	3 SPR
TMPF5363		
	2N5363	2
	2N4222	3 INL
	2N4222A	3 SIX
	BFW10	3 PHIN
	THJ5363	3 SPR
	TP5363	3 SPR
TMPF5364		
	2N5364	2
	2N4222	3 INL
	2N4224	3 SIX
	BFW10	3 PHIN
	THJ5364	3 SPR
	TP5364	3 SPR
TMPF5397		
	2N5397	2
	DE452	3 DGE
	THJ5397	3 SPR
	TP5397	3 SPR
	U309	3 MOTA
	U310	3 SIX
TMPF5398		
	2N5398	2
	THJ5398	3 SPR
	TP5398	3 SPR
	U309	3 MOTA
	U312	3 SIX
TMPF5457		
	2N5457	2
	2N5953	3 IFC
	BF245A	3 PHIN
	DE451	3 DGE
	THJ5457	3 SPR
TMPF5458		
	2N5458	2
	2N5952	3 IFC
	BF245B	3 PHIN
	DE451	3 DGE
	THJ5458	3 SPR
TMPF5459		
	2N5459	2
	2N5951	3 IFC
	BF245C	3 PHIN
	DE451	3 DGE
	THJ5459	3 SPR
TMPF5460		
	2N5460	2
	DE326	3 DGE
	MRF454	3 MOTA
	THJ5460	3 SPR
TMPF5461		
	2N5461	2

1 - Mfr. Suggested 2 - Reverse of Mfr. Suggested 3 - Permutation of Mfr. Suggested

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