

### APPLICATION INFORMATION . . .

Power Types [N-P-N & P-N-P] for Inverter/Switching Regulator Service

Frequency Range	Peak Voltage Required	Peak Primary Current Requirement				>20 A
		Up to 0.2 A	0.2 to 1 A	1 to 4 A	4 to 20 A	
60 Hz to 50 kHz	10 to 60V	2N3053 2N4037	2N5321 2N5323 2N6179 2N6181	2N3054 2N5497▲	2N3055 2N3772	-
	60 to 150V	2N1486 2N2102 2N4036	2N1486 2N3441 2N5298 2N5781 2N5784	2N3442 2N3879 2N5293▲ 2N5954●	2N3265 2N3773 2N5039 2N5672 2N6248●  41012 41013	2N5671 2N6032
	150 to 450V	2N3440 2N5416 BFT 19 A,B,C	-	2N3585 2N6212● 40850 40851	2N5805 2N6251 410 411 413 423 431 2N6514 BUX 18 2N5840 410 413 40852 40853 40854	-
		BFT 28 A,B,C 2N6177▲				
	Off Line 220V (Rectifier 400- 800V)				TA8764 TA8900 2N6513	2N5240 BUX 16,A,B,C BUX 18,C

●P-N-P types

▲Plastic-packaged types

$V_{PEAK} = V_{CEX}$  value

$V_{PEAK} = 2.2 V (V_{CC})$  for push-pull inverters

$= 1.1 V (V_{CC})$  for bridge inverters

$= 1.1 V$  (Source) for switching regulators

**2N1482 FAMILY [n-p-n] (silicon)**  
 $f_T = 1.4 \text{ MHz typ}; P_T = 8.75 \text{ W max}$

**DESCRIPTION**

**2N TYPES**

- 2N1479● Medium Power DC-to-DC Converter, Inverter
- 2N1480● Medium Power Chopper, DC and Servo
- 2N1481● Medium Power Amplifier, Relay and Solenoid
- 2N1482● Medium Power Actuating Circuits

$V_{CE0(sus)}$ V	$V_{CER(sus)}$ V	$V_{CEV(sus)}$ V	$h_{FE}$		$I_{CBO} - \mu A$			$V_{CE(sat)} - V$			$V_{BE} - V$		
			$I_C$ A	$V_{CE}$ V	Temp. - °C 25	150	$V_{CB}$ V	$I_C$ A	$I_B$ A	$I_C$ A			
40	—	60	20-60	0.2	4	10	500	30	1.4	0.2	0.02	3	0.2
55	—	100	20-60	0.2	4	10	500	30	1.4	0.2	0.02	3	0.2
40	—	60	35-100	0.2	4	10	500	30	1.4	0.2	0.02	3	0.2
55	—	100	35-100	0.2	4	10	500	30	1.4	0.2	0.02	3	0.2

**OTHER TYPES**

- 40347 Low Power Audio Driver
- 40348 Relay and Solenoid Driver

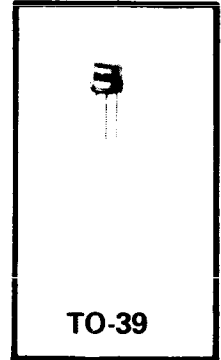
40	—	60	25-150	0.45	4	1	—	30	1	0.45	0.045	1.5	0.45
65	—	90	30-125	0.3	4	1	—	60	0.75	0.3	0.03	1.3	0.3

**HIGH-RELIABILITY TYPES**

- 40367 Hi-Rel Version of 2N1482

55	—	100	35-100	0.2	4	4	—	30	1.4	0.2	10	3	0.2
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●JAN types available



**2N TYPES**

- 2N1483■ Intermediate Power DC-to-DC Converter,
- 2N1484■ Inverter Chopper, Regulators, DC and
- 2N1485■ Servo Amplifiers Relay and Solenoid—
- 2N1486■ Actuating Circuits

**2N1486 FAMILY [n-p-n] (silicon)**  
 $f_T = 1.2 \text{ MHz typ}; P_T = 25 \text{ W max}$

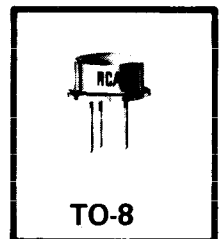
40	—	60	20-60	0.75	4	15	0.75	30	2	0.75	0.075	3.5	0.75
55	—	100	20-60	0.75	4	15	0.75	30	2	0.75	0.075	3.5	0.75
40	—	60	35-100	0.75	4	15	0.75	30	0.75	0.75	0.04	2.5	0.75
55	—	100	35-100	0.75	4	15	0.75	30	0.75	0.75	0.04	2.5	0.75

**HIGH-RELIABILITY TYPES**

- 40368 Hi-Rel Version of 2N1486

55	—	100	35-100	0.75	4	9	—	30	0.75	0.75	0.04	2.5	0.75
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■JAN & JAN TX types available



**2N TYPES**

- 2N1487● High Power DC-to-DC Converter, Inverter, Chopper
- 2N1488● Voltage and Current Regulator, DC and Servo
- 2N1489● Amplifier, Relay, and Solenoid
- 2N1490● Actuating Circuits

**2N1490 FAMILY [n-p-n] (silicon)**  
 $f_T = 0.8 \text{ MHz typ}; P_T = 75 \text{ W max}$

40	—	60	15-45	1.5	4	25	1000	30	3	1.5	0.3	3.5	1.5
55	—	100	15-45	1.5	4	25	1000	30	3	1.5	0.3	3.5	1.5
40	—	60	25-75	1.5	4	25	1000	30	1	1.5	0.1	2.5	1.5
55	—	100	25-75	1.5	4	25	1000	30	1	1.5	0.1	2.5	1.5

**HIGH-RELIABILITY TYPES**

- 40369 Hi-Rel Version of 2N1490

55	—	100	25-75	1.5	4	10	—	30	1	1.3	0.1	2.5	1.3
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●JAN types available

