

# Thyristors and Unijunctions

## Thyristors

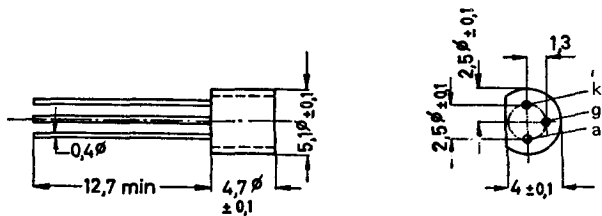
Type	Case	Maximum ratings			Characteristics @ 25°C					
		$V_{FR}^1$ V	$I_{FM}$ A	$T_{JM}$ °C	$I_{FR}$ uA	$(V_F/T_{amb})$ (V/°C)	$I_{GT}^1$ mA	$V_{GT}^1$ V	$I_{HR}$ mA	$V_F$ ( $I_F$ ) V (A)
NTS 311	Plastic	30	0.6	150	50	(30/125)	< 0.2	< 0.8	< 5.0	< 1.5 (0.3)
NTS 0660	TO18	60	0.6	150	—	—	< 10	< 3.0	—	—
NTS 1500	TO5	500	1.0	150	1000	(500/85)	< 10	< 3.0	< 25.0	< 1.6 (1.0)

<sup>1</sup>  $R_{GK} = 1k$

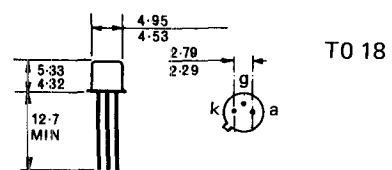
## Unijunctions in TO18 metal case

Type	Maximum ratings				Characteristics @ 25°C						
	$V_{BBO}$ V	$V_{EBO}$ V	$I_{EM}$ A	$P_{tot}$ W	$T_{JM}$ °C	$r_{BB}$ (3V) k	$\eta$	$I_{EBO}$ (30V) uA	$V_{EB sat}$ (50mA) V	$I_V$ (20V) mA	$I_p$ (25V) uA
2N 2646	30	30	2.0	0.3	150	4.7 ... 9.1	0.56 ... 0.75	< 0.2	< 5.0	> 4	< 5.0
2N 2647	30	30	2.0	0.3	150	4.7 ... 9.1	0.68 ... 0.82	< 0.2	—	> 8	< 2.0

NTS 311

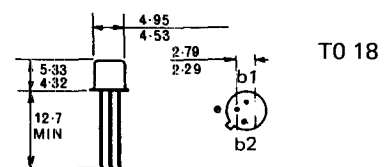


NTS 0660



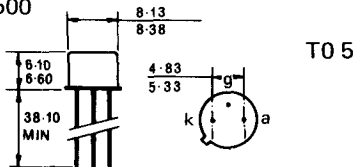
TO 18

2N 2646 2N 2647



TO 18

NTS 1500



TO 5