

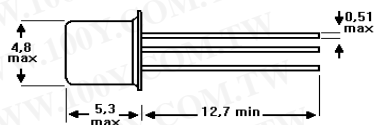
2N2646
2N2647

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

SILICON UNIJUNCTION TRANSISTORS

Silicon Planar Unijunction Transistors have a structure resulting in lower saturation voltage, peak-point current and valley current as well as a much higher base-emitter peak pulse voltage. In addition, these devices are much faster switches.

The 2N2646 is intended for general purpose industrial applications where circuit economy is of primary importance, and is ideal for use in firing circuits for Silicon Controlled Rectifiers and other applications where a guaranteed minimum pulse amplitude is required. The 2N2647 is intended for applications where a low emitter leakage current and a low peak point emitter current (trigger current) are required and also for triggering high power SCR's.



CASE



MAXIMUM RATINGS (*)

$T_J = 125^\circ\text{C}$ unless otherwise noted

Symbol	Ratings	2N2646	2N2647
V_{B1E}	Base 1 – Emitter Voltage	30	V
V_{B2E}	Base 2 – Emitter Voltage	30	V
I_{FRMS}	RMS Emitter Current	50	mA
I_{EM}	Emitter Peak Current	2	A
P_{TOT}	Total Power Dissipation	300	mW
T_J	Maximum Junction	150	$^\circ\text{C}$
T_{STG}	Storage Temperature Range	-55 to +175	

ELECTRICAL CHARACTERISTICS

$T_J = 25^\circ\text{C}$ unless otherwise noted, $R_{GK} = 1000\Omega$

Symbol	Ratings	2N2646 – 2N2647		
		Min	Max	
I_{EO}	Emitter Reverse Current		12	μA
$V_{(BR)B1E}$	Base 1 – Emitter Breakdown Voltage $I_E = 100 \mu\text{A}$	30		V

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Symbol	Ratings		2N2646 – 2N2647		
			Min	Max	
R_{BBO}	Interbase Resistance $V_{B1B2} = 3\text{ V}$		4.7	9.1	$k\Omega$
η	Intrinsic stand-off ratio $V_{B1B2} = 10\text{ V}$	2N2646	0.56	0.75	-
		2N2647	0.68	0.82	
$V_{E(SAT)}$	Emitter Saturation Voltage $I_E = 50\text{ mA}$, $V_{B1B2} = 10\text{ V}$		-	2.5	V
I_V	Valley Current $V_{B1B2} = 20\text{ V}$	2N2646	4	-	mA
		2N2647	8	-	
I_P	Peak Current $V_{B1B2} = 25\text{ V}$	2N2646	-	5	μA
		2N2647	-	2	

* V_{DRM} or V_{RSM} can be applied for all types on a continuous dc basis without incurring damage.

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 Data are subject to change without notice.