

Triacs

Silicon Bidirectional Triode Thyristors

... designed primarily for industrial and military applications for the control of ac loads in applications such as light dimmers, power supplies, heating controls, motor controls, welding equipment and power switching systems; or wherever full-wave, silicon gate controlled solid-state devices are needed.

- All Diffused and Glass Passivated Junctions for Greater Stability
- Pressfit, Stud and Isolated Stud Packages
- Gate Triggering Guaranteed In All 4 Quadrants

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
*Peak Repetitive Off-State Voltage ($T_J = -65$ to $+100^\circ\text{C}$) 1/2 Sine Wave 50 to 60 Hz, Gate Open 2N5571, 2N5573, 2N6145 2N5572, 2N5574, 2N6146 T4100M, T4110M, 2N6147	V_{DRM}	200 400 600	Volts
*Peak Gate Voltage	V_{GM}	20	Volts
*RMS On-State Current ($T_C = -65$ to $+80^\circ\text{C}$) ($T_C = +85^\circ\text{C}$)	$I_T(\text{RMS})$	15 10	Amps
*Peak Non-Repetitive Surge Current (One Full cycle of surge current at 60 Hz, preceded and followed by rated current, $T_C = 85^\circ\text{C}$)	I_{TSM}	100	Amps
Circuit Fusing ($T_C = -65$ to $+80^\circ\text{C}$, $t = 1$ to 8.3 ms)	I^2t	40	A^2s
Peak Gate Power *($T_C = 80^\circ\text{C}$, Pulse Width $\leq 1 \mu\text{s}$) 2N5571 thru 2N5574 T4100M, T4110M *($T_C = 80^\circ\text{C}$, Pulse Width $\leq 2 \mu\text{s}$) 2N6145 thru 2N6147	P_{GM}	16 16 20	Watts
*Average Gate Power ($T_C = 80^\circ\text{C}$, Pulse Width ≤ 8.3 ms)	$P_{G(AV)}$	0.5	Watt
*Peak Gate Current	I_{GM}	2	Amps
*Operating Junction Temperature Range	T_J	-65 to $+100$	$^\circ\text{C}$
*Storage Temperature Range	T_{stg}	-65 to $+150$	$^\circ\text{C}$
Stud Torque *2N5573, 2N5574, T4110M *2N6145, 2N6146, 2N6147	—	30	in. lb.

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
*Thermal Resistance, Junction to Case	$R_{\theta JC}$	1	$^\circ\text{C/W}$

*Indicates JEDEC Registered Data.

**2N5571
thru
2N5574
2N6145
thru
2N6147
T4100M
T4110M**

**TRIACs
15 AMPERES RMS
200 thru 600 VOLTS**



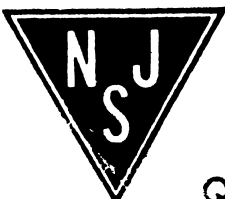
**CASE 174-04
2N5571
2N5572
T4100M**



**CASE 175-02
2N5573
2N5574
T4110M**



**CASE 311-02
2N6145
2N6146
2N6147**



Quality Semi-Conductors