

TECHNICAL DATA
DATA SHEET 254, REV. F**HERMETIC POWER SCHOTTKY RECTIFIER**
SINGLE / DUAL COMMON CATHODE, COMMON ANODE, DOUBLER

DESCRIPTION: A 100 VOLT, 30 AMP POWER SCHOTTKY RECTIFIER IN A HERMETIC TO-254 PACKAGE.

MAXIMUM RATINGSALL RATINGS ARE AT $T_C = 25^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT ($T_C = 100^\circ\text{C}$) (SINGLE / DOUBLER)	I_O	15	Amps
MAXIMUM DC OUTPUT CURRENT ($T_C = 100^\circ\text{C}$) (COMMON CATHODE / COMMON ANODE)	I_O	30	Amps
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT ($t=8.3\text{ms}$, Sine) (per leg)	I_{FSM}	150	Amps
JUNCTION CAPACITANCE $V_R = 5\text{Vdc}$ (per leg)	C_T	600	pF
MAXIMUM THERMAL RESISTANCE (per leg)	$R_{\theta JC}$	2.82	$^\circ\text{C/W}$
MAXIMUM OPERATING TEMPERATURE RANGE	$T_{op/stg}$	-55 to +175	$^\circ\text{C}$

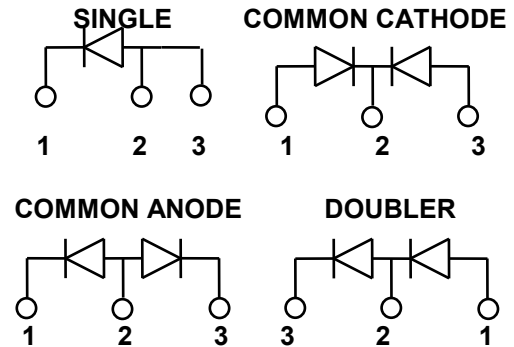
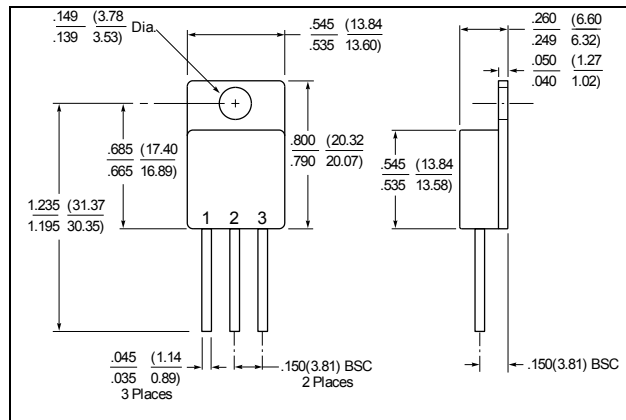
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP ($I_F = 15\text{A}$) (per leg) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	V_f	0.93 0.83	Volts
MAXIMUM REVERSE CURRENT (I_r @ PIV) (per leg) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	I_r	0.35 8.0	mA

SENSITRON

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MECHANICAL DIMENSIONS: In Inches / mm



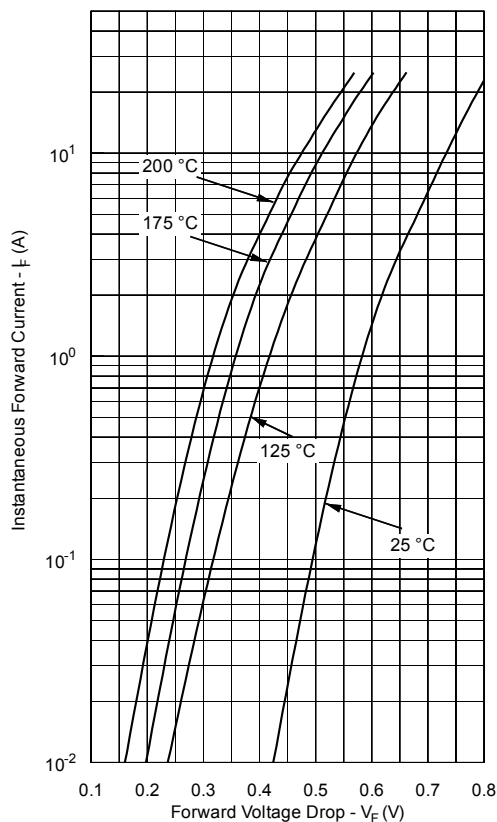
TO-254

PINOUT TABLE

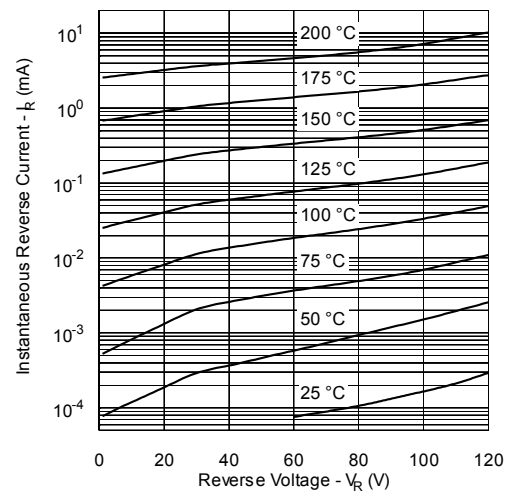
TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE
DUAL RECTIFIER, COMMON CATHODE (P)	ANODE 1	COMMON CATHODE	ANODE 2
DUAL RECTIFIER, COMMON ANODE (N)	CATHODE 1	COMMON ANODE	CATHODE 2
DOUBLER (D)	ANODE	ANODE/CATHODE	CATHODE

V_F curves shown are for die only.

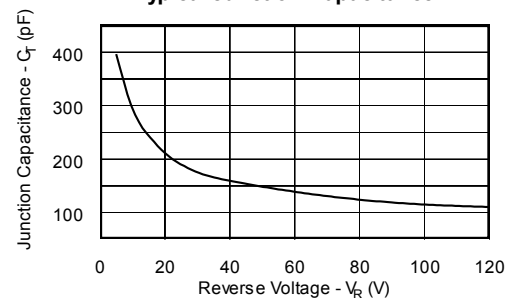
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



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