

TECHNICAL DATA
DATA SHEET 454, REV. A**HERMETIC POWER SCHOTTKY RECTIFIER**
Ultra Low Reverse Leakage Very Low Voltage Drop**DESCRIPTION:** A 100 VOLT, 30 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC TO-254 PACKAGE.**MAXIMUM RATINGS**ALL RATINGS ARE @ $T_C = 25^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED.

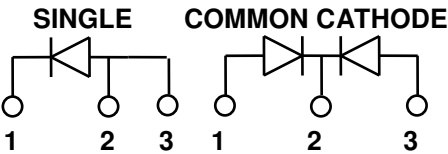
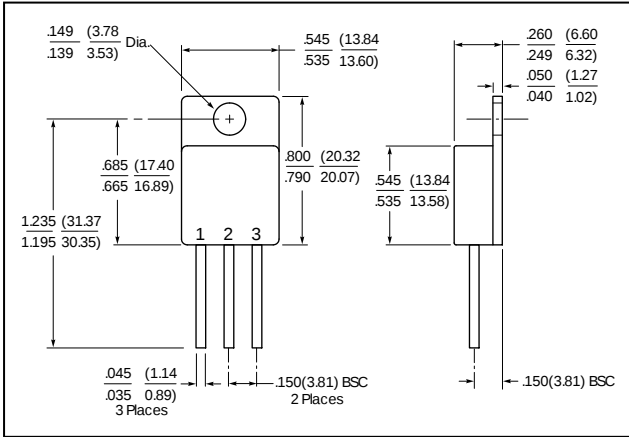
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_C=100^\circ\text{C}$) (SINGLE) Total Current Limited by Die.	I_O	30	Amps
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_C=100^\circ\text{C}$) (COMMON CATHODE). Current Limited by Device.	I_O	35	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t = 8.3\text{ms}$, Sine) (per leg)	I_{FSM}	150	Amps
MAXIMUM JUNCTION CAPACITANCE ($V_r=5\text{V}$) (per leg)	C_T	1000	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode) (per leg)	$R_{\theta JC}$	1.5	$^\circ\text{C/W}$
MAXIMUM OPERATING TEMPERATURE RANGE	Top	-65 to + 175	$^\circ\text{C}$
MAXIMUM STORAGE TEMPERATURE RANGE	Tstg	-65 to + 175	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 30\text{ Amps}$) (per leg) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	V_f	1.01 0.85	Volts
MAXIMUM REVERSE CURRENT ($I_r @ 100\text{V PIV}$) (per leg) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	I_r	0.2 2.0	mA

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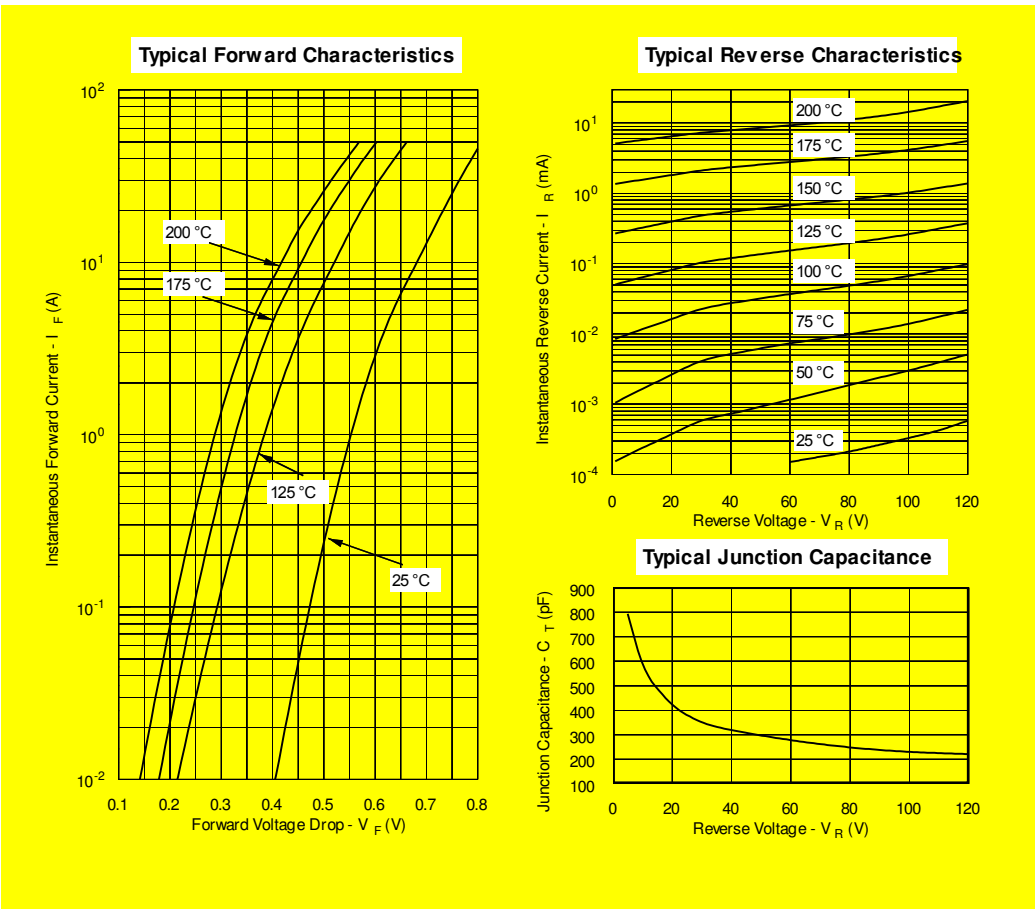
MECHANICAL DIMENSIONS: In Inches / mm



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



Note: The V_f curves shown are for the SD175SCU100A unpackaged die only.

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