SENSITRON
SEMICONDUCTOR

TECHNICAL DATA
DATA SHEET 346, REV. A

HERMETIC ULTRAFAST RECOVERY RECTIFIER

DESCRIPTION: 300 VOLT, 15 AMP, 35 NS, RECTIFIER IN A HERMETIC TO-254 PACKAGE.

MAX RATINGS/ELECTRICAL CHARACTERISTICS ALL RATINGS ARE AT T_A = 25 °C UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE (PER LEG)	PIV	300	Volts
MAXIMUM FORWARD VOLTAGE DROP (PER LEG) I_F = 10A, T_A = 25^{0}C I_F = 20A, T_A = 25^{0}C I_F = 10A, T_A = -55^{0}C	V_f	 1.35 1.55 1.45	Volts
MAXIMUM DC OUTPUT CURRENT (T_C = 100^{0}C) (PER LEG)	I_O	15	Amps
PEAK SINGLE CYCLE SURGE CURRENT t_p = 8.3 msec.	I_{FSM}	150	Amps
MAXIMUM REVERSE RECOVERY TIME (I_f = 0.5A, I_r = 1.0A, I_{rr} = 0.25A)	t_{rr}	35	nsec
MAXIMUM REVERSE CURRENT I_r @ PIV PER LEG (T_C = 25^{0}C) (T_C = 100^{0}C)	I_r	50 5	µA mA
MAXIMUM THERMAL RESISTANCE (PER LEG)	$R_{\theta JC}$	2.0	^{0}C /W
MAXIMUM OPERATING TEMPERATURE RANGE	T_{OP}	-55 to +175	°C
JUNCTION CAPACITANCE V_R = 10Vdc, f = 1MHz V_{SIG} = 50mV (p-p) (Max)	C_J	150	pF

* Suffix R denotes common anode version.

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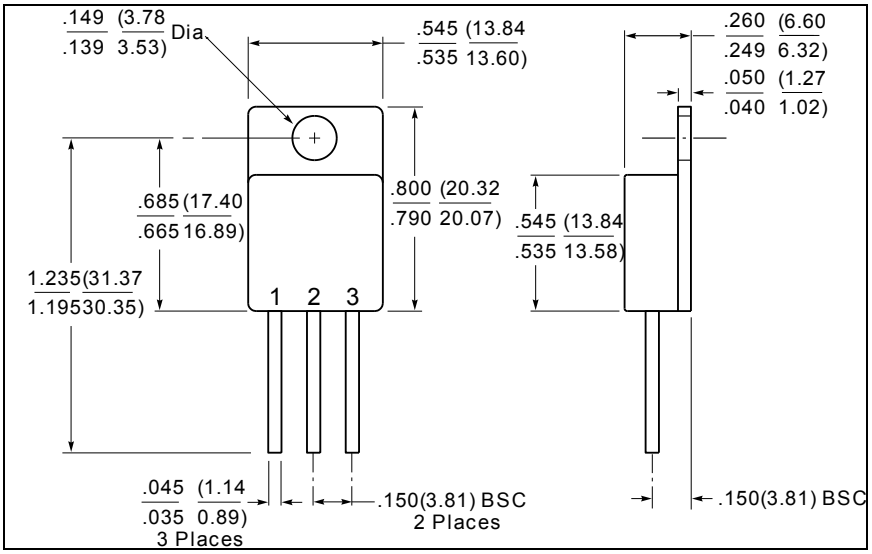
MECHANICAL DIMENSIONS: In Inches / mm

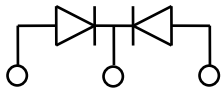


TO-254

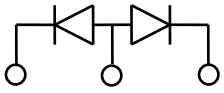
PINOUT TABLE

TYPE	PIN 1	PIN 2	PIN 3
DUAL RECTIFIER, COMMON CATHODE	ANODE 1	COMMON CATHODE	ANODE 2
DUAL RECTIFIER, COMMON ANODE (R)	CATHODE 1	COMMON ANODE	CATHODE 2

SCHEMATIC



COMMON CATHODE



COMMON ANODE