

TECHNICAL DATA  
DATA SHEET 266, REV -

## HERMETIC ULTRAFAST RECOVERY RECTIFIER

**DESCRIPTION:** 150 VOLT, 40 AMP, 35 NANOSECOND, HERMETIC RECTIFIER IN A TO-254 PACKAGE.

### MAX RATINGS/ELECTRICAL CHARACTERISTICS

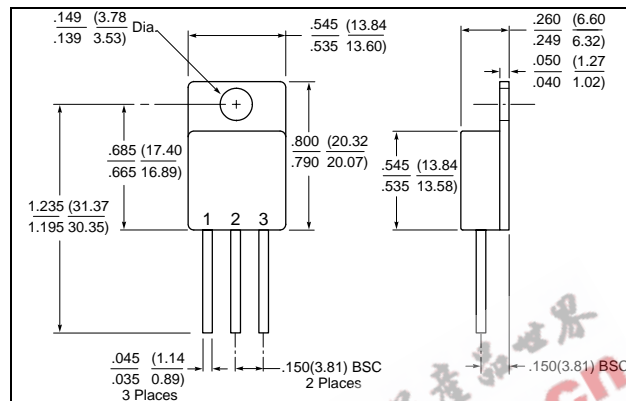
ALL RATINGS ARE AT  $T_A = 25^\circ\text{C}$  UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE (PER LEG)	PIV	150	Volts
MAXIMUM FORWARD VOLTAGE DROP (PER LEG) ( $I_F = 10$ Amps) $I_F = 10\text{A}, T_A = 25^\circ\text{C}$ $I_F = 10\text{A}, T_A = 125^\circ\text{C}$	$V_f$	1.0 0.83	Volts
MAXIMUM DC OUTPUT CURRENT ( $T_C = 100^\circ\text{C}$ )	$I_O$	40	Amps
PEAK SINGLE CYCLE SURGE CURRENT $t_p = 8.3$ msec.	$I_{FSM}$	300	Amps
MAXIMUM REVERSE RECOVERY TIME ( $I_f = 0.5\text{A}, I_r = 1.0\text{A}, I_{rr} = 0.25\text{A}$ )	$t_{rr}$	35	nsec
MAXIMUM REVERSE CURRENT $I_r$ @ PIV (PER LEG)	$I_r$	10 1.0	$\mu\text{A}$ mA
MAXIMUM THERMAL RESISTANCE (PER LEG)	$R_{\theta JC}$	2.3	$^\circ\text{C/W}$
MAXIMUM OPERATING TEMPERATURE RANGE	-	-65 to +200	$^\circ\text{C}$
JUNCTION CAPACITANCE $V_R = 10\text{Vdc}, f = 1\text{mHz}$ $V_{SIG} = 50\text{mV (p-p) (Max)}$	$C_J$	150	pF

\* Suffix R denotes common anode version.

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MECHANICAL DIMENSIONS: In Inches / mm

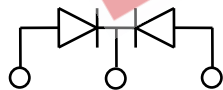


TO-254

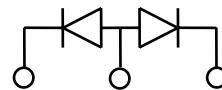
PINOUT TABLE

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

# **SENSITRON**

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## **SEMICONDUCTOR**

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### **TECHNICAL DATA**

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