

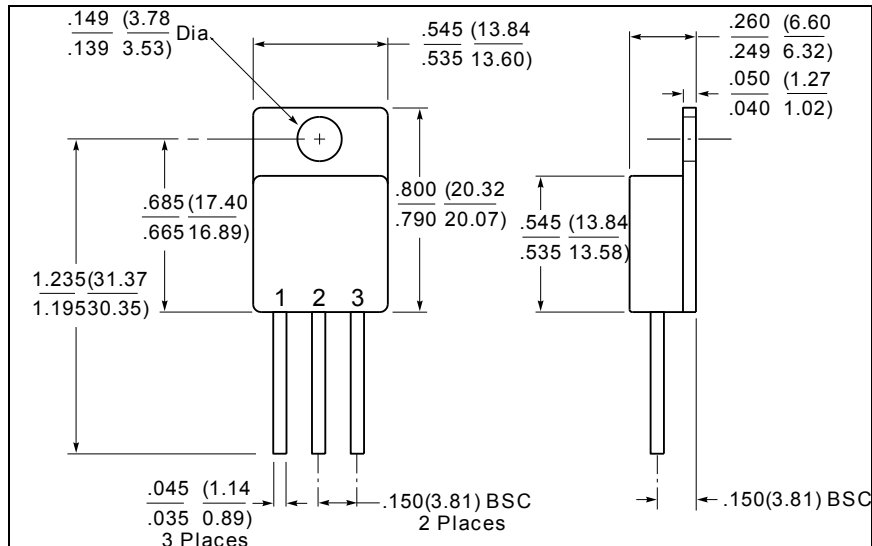
**TECHNICAL DATA**  
**DATA SHEET 346, REV. A****HERMETIC ULTRAFAST RECOVERY RECTIFIER****DESCRIPTION:** 300 VOLT, 15 AMP, 35 NS, RECTIFIER IN A HERMETIC TO-254 PACKAGE.**MAX RATINGS/ELECTRICAL CHARACTERISTICS** ALL RATINGS ARE AT  $T_A = 25^\circ\text{C}$  UNLESS OTHERWISE SPECIFIED.

<b>RATING</b>	<b>SYMBOL</b>	<b>MAX.</b>	<b>UNITS</b>
PEAK INVERSE VOLTAGE (PER LEG)	PIV	300	Volts
MAXIMUM FORWARD VOLTAGE DROP (PER LEG) $I_F = 10\text{A}, T_A = 25^\circ\text{C}$ $I_F = 20\text{A}, T_A = 25^\circ\text{C}$ $I_F = 10\text{A}, T_A = -55^\circ\text{C}$	$V_f$	1.35 1.55 1.45	Volts
MAXIMUM DC OUTPUT CURRENT ( $T_C = 100^\circ\text{C}$ ) (PER LEG)	$I_O$	15	Amps
PEAK SINGLE CYCLE SURGE CURRENT $t_p = 8.3$ msec.	$I_{FSM}$	150	Amps
MAXIMUM REVERSE RECOVERY TIME ( $I_f = 0.5\text{A}, I_r = 1.0\text{A}, I_{rr} = 0.25\text{A}$ )	$t_{rr}$	35	nsec
MAXIMUM REVERSE CURRENT $I_r$ @ PIV PER LEG ( $T_C = 25^\circ\text{C}$ )  ( $T_C = 100^\circ\text{C}$ )	$I_r$	50 5	$\mu\text{A}$ mA
MAXIMUM THERMAL RESISTANCE (PER LEG)	$R_{\theta JC}$	2.0	$^\circ\text{C}/\text{W}$
MAXIMUM OPERATING TEMPERATURE RANGE	$T_{OP}$	-55 to +175	$^\circ\text{C}$
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**

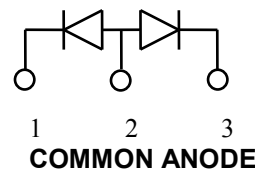
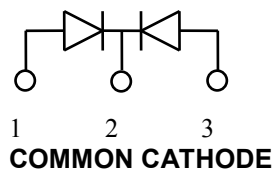


**TO-254**

**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**



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