

**TECHNICAL DATA**  
**DATA SHEET 246, REV B**

**HERMETIC ULTRAFAST RECTIFIER**  
 SINGLE / DUAL - COM. CATHODE / COM. ANODE / DOUBLER

**DESCRIPTION:** 400 VOLT, 16 AMP, 45 NANOSECOND, HERMETIC RECTIFIER IN A TO-257 PACKAGE.

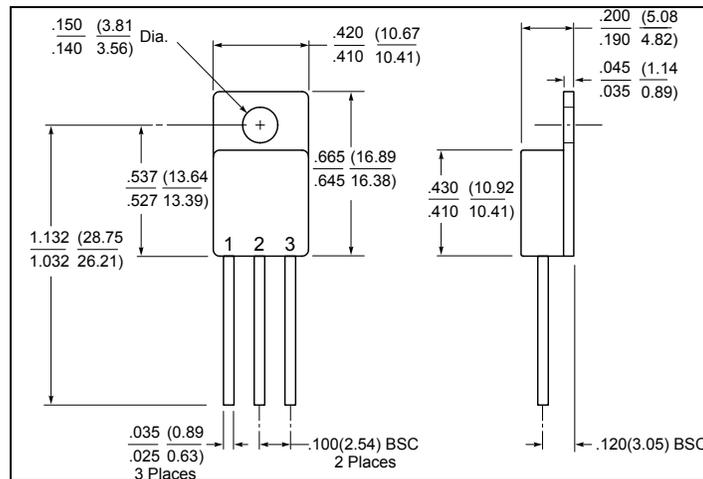
**MAX RATINGS/ELECTRICAL CHARACTERISTIC** ALL RATINGS ARE AT  $T_A = 25^\circ\text{C}$  UNLESS OTHERWISE SPECIFIED

<b>RATING</b>	<b>SYMBOL</b>	<b>MAX.</b>	<b>UNITS</b>
PEAK INVERSE VOLTAGE (PER LEG)	PIV	400	Volts
MAXIMUM FORWARD VOLTAGE DROP @ $T_A = 25^\circ\text{C}$ (PER LEG) ( $I_f = 16$ Amps)	$V_f$	1.45	Volts
MAXIMUM FORWARD VOLTAGE DROP @ $T_A = 125^\circ\text{C}$ (PER LEG) ( $I_f = 16$ Amps)	$V_f$	1.40	Volts
MAXIMUM DC OUTPUT CURRENT ( $T_C = 100^\circ\text{C}$ )	$I_o$	16	Amps
PEAK SINGLE CYCLE SURGE CURRENT $t_p = 8.3$ msec	$I_{FSM}$	150	Amps
MAXIMUM REVERSE RECOVERY TIME ( $I_f = 0.5\text{A}$ , $I_r = 1.0\text{A}$ , $I_{rr} = 0.25\text{A}$ )	$t_{rr}$	45 typ 50 max	nsec
MAXIMUM REVERSE CURRENT $I_{rr}$ @ PIV (PER LEG) @ $T_A = 25^\circ\text{C}$	$I_{rr}$	25	$\mu\text{A}$
MAXIMUM REVERSE CURRENT $I_{rr}$ @ PIV (PER LEG) @ $T_A = 125^\circ\text{C}$	$I_{rr}$	1.0	mA
MAXIMUM THERMAL RESISTANCE (PER LEG)	$R_{\theta JC}$	1.5	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	$T_{op/stg}$	-65to +175	$^\circ\text{C}$

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**MECHANICAL DIMENSIONS: In Inches / mm**



**TO-257**

**PINOUT TABLE**

DEVICE 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
DUAL RECTIFIER/DOUBLER (D)	ANODE	ANODE/ CATHODE	CATHODE

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