

TECHNICAL DATA  
DATA SHEET 822, REV. B.2  
FORMERLY PART NUMBER - SHD3264/P/N/D

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

**DESCRIPTION:** A 600 VOLT, 16 AMP, 30 NANOSECOND, RECTIFIER IN A HERMETIC TO-257 PACKAGE.

- ✓ Add Suffix "S" to the Part Number for S-100 Screening
- ✓ Add Suffix "B" to the Part Number for Lead Bending Option

**MAXIMUM RATINGS**

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

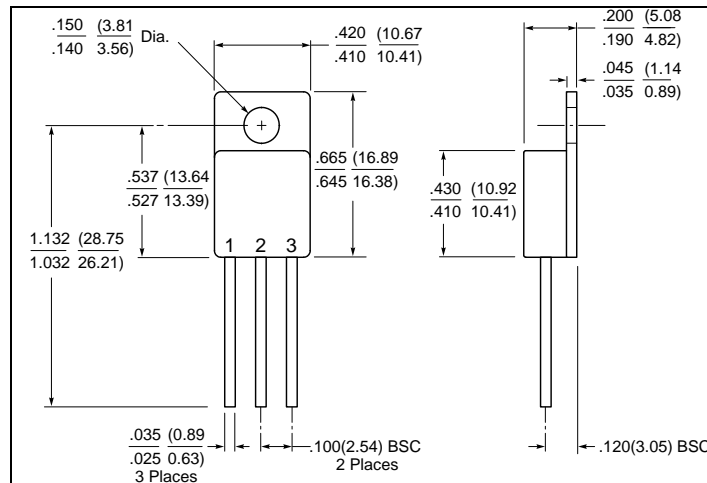
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE (PER LEG)	PIV	600	Volts
MAXIMUM DC OUTPUT CURRENT ( $T_C = 100\text{ }^\circ\text{C}$ )	$I_O$	16	Amps
PEAK SINGLE CYCLE SURGE CURRENT $t_p = 8.3\text{ mseconds}$	$I_{FSM}$	75	Amps
MAXIMUM THERMAL RESISTANCE (PER LEG)	$R_{\theta JC}$	3.7	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	$T_{op/stg}$	-65to +150	$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP @ $T_A = 25^\circ$ (PER LEG) SINGLE / COMMON CATHODE (P) COMMON ANODE (N) / DOUBLER (D) ( $I_f = 16\text{ Amps}$ )	$V_f$	1.70 1.75	Volts
MAXIMUM FORWARD VOLTAGE DROP @ $T_A = 125^\circ$ (PER LEG) SINGLE / COMMON CATHODE (P) COMMON ANODE (N) / DOUBLER (D) ( $I_f = 16\text{ Amps}$ )	$V_f$	1.65 1.70	Volts
MAXIMUM REVERSE CURRENT $I_r$ @ PIV (PER LEG) @ $T_A = 25^\circ$	$I_r$	25	$\mu\text{A}$
MAXIMUM REVERSE CURRENT $I_r$ @ PIV (PER LEG) @ $T_A = 125^\circ$	$I_r$	2.0	mA
MAXIMUM REVERSE RECOVERY TIME ( $I_f = 0.5\text{A}$ , $I_r = 1.0\text{A}$ , $I_{rr} = 0.25\text{A}$ )	$t_{rr}$	30	nsec

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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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