

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  $T_A = 25$  C) UNLESS OTHERWISE SPECIFIED

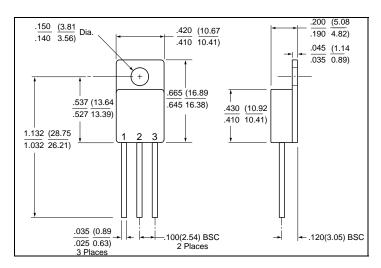
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE (PER LEG)	PIV	600	Volts
MAXIMUM DC OUTPUT CURRENT (T <sub>C</sub> = 100 °C)	Io	16	Amps
PEAK SINGLE CYCLE SURGE CURRENT $t_p = 8.3$ mseconds	I <sub>FSM</sub>	75	Amps
MAXIMUM THERMAL RESISTANCE (PER LEG)	$R_{ heta JC}$	3.7	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE		-65to +150	°C

### **ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP @ T <sub>A</sub> = 25°(PER LEG)			
SINGLE / COMMON CATHODE (P)	$V_{f}$	1.70	Volts
COMMON ANODE (N) / DOUBLER (D)	'	1.75	
(I <sub>f</sub> = 16 Amps)		1.70	
MAXIMUM FORWARD VOLTAGE DROP @ T <sub>A</sub> = 125° (PER LEG)			
SINGLE / COMMON CATHODE (P)	$V_{f}$	1.65	Volts
COMMON ANODE (N) / DOUBLER (D)	·	1.70	
(I <sub>f</sub> = 16 Amps)		1.70	
MAXIMUM REVERSE CURRENT I, @ PIV (PER LEG) @ $T_A = 25^{\circ}$	l <sub>r</sub>	25	μА
MAXIMUM REVERSE CURRENT I <sub>r</sub> @ PIV (PER LEG) @ T <sub>A</sub> = 125°	l <sub>r</sub>	2.0	mA
MAXIMUM REVERSE RECOVERY TIME $(I_f = 0.5A, I_r = 1.0A, I_{rr} = 0.25A)$	t <sub>rr</sub>	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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