

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

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

DESCRIPTION: A 600 VOLT, 16 AMP, 30 NANOSECONDS, 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

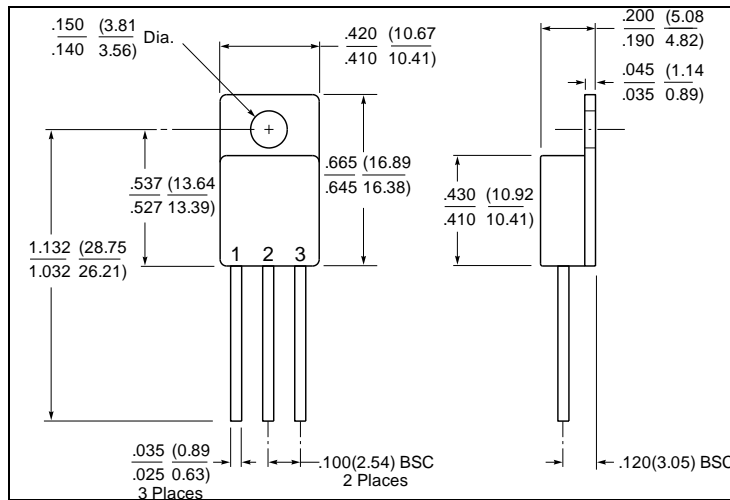
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE (PER LEG)	PIV	600	Volts
MAXIMUM DC OUTPUT CURRENT ($T_C = 100\text{ }^\circ\text{C}$)	I_o	16	Amps
PEAK SINGLE CYCLE SURGE CURRENT $t_p = 8.3\text{ msec}$	I_{FSM}	75	Amps
MAXIMUM THERMAL RESISTANCE (PER LEG)	$R_{\theta JC}$	3.7	$^\circ\text{C/W}$
MAXIMUM OPERATING 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	1.80 1.85	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	1.75 1.80	Volts
MAXIMUM REVERSE CURRENT I_r @ PIV (PER LEG) @ $T_A = 25^\circ$	I_r	25	μA
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

PART ORDERING INFORMATION:

SHD326123 XX X

Part Number

Screening Level (blank is no screening):

Suffix	Screened in Accordance with:
blank	No screening level
S	MIL-PRF-19500, TXV Level
SS	MIL-PRF-19500, S Level

QCI (blank is no QCI):

Suffix	Inspection in Accordance with:
blank	No QCI
Q	MIL-PRF-19500 QCI

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