

TECHNICAL DATA
DATA SHEET 5216, REV A.1

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

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

PART NUMBER ORDERING OPTIONS:

- **High Frequency Option** - Non-magnetic Glidcop leads are available for improved performance at high frequency; use part number prefix **SHDG**
- **Ceramic Seal Option** – For ceramic seals use part number prefix **SHDC**
- **Rohs Compliant Option** – For Rohs compliance, use suffix **-G**

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

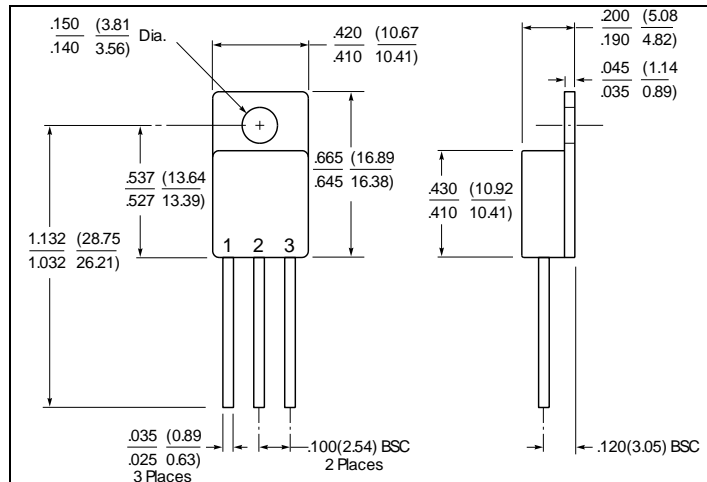
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE (PER LEG)	PIV	400	Volts
MAXIMUM FORWARD VOLTAGE DROP @ $T_A = 25^{\circ}\text{C}$ (PER LEG) ($I_f = 16$ Amps)	V_f	1.50	Volts
MAXIMUM FORWARD VOLTAGE DROP @ $T_A = 125^{\circ}\text{C}$ (PER LEG) ($I_f = 16$ Amps)	V_f	1.40	Volts
MAXIMUM DC OUTPUT CURRENT ($T_C = 100^{\circ}\text{C}$)	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 60 max	nsec
MAXIMUM REVERSE CURRENT I_{rr} @ PIV (PER LEG) @ $T_A = 25^{\circ}\text{C}$	I_{rr}	25	μA
MAXIMUM REVERSE CURRENT I_{rr} @ PIV (PER LEG) @ $T_A = 125^{\circ}\text{C}$	I_{rr}	1.0	mA
MAXIMUM THERMAL RESISTANCE (PER LEG)*	$R_{\theta JC}$	2.82	$^{\circ}\text{C}/\text{W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	$T_{op/stg}$	-65to +175	$^{\circ}\text{C}$

*Note: Maximum thermal resistance per package (SHD3263P) = $1.5^{\circ}\text{C}/\text{W}$

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MECHANICAL DIMENSIONS: In Inches / mm

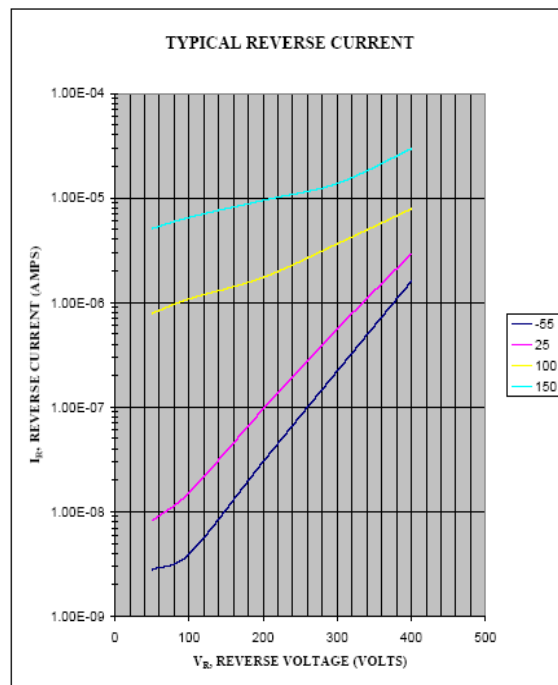
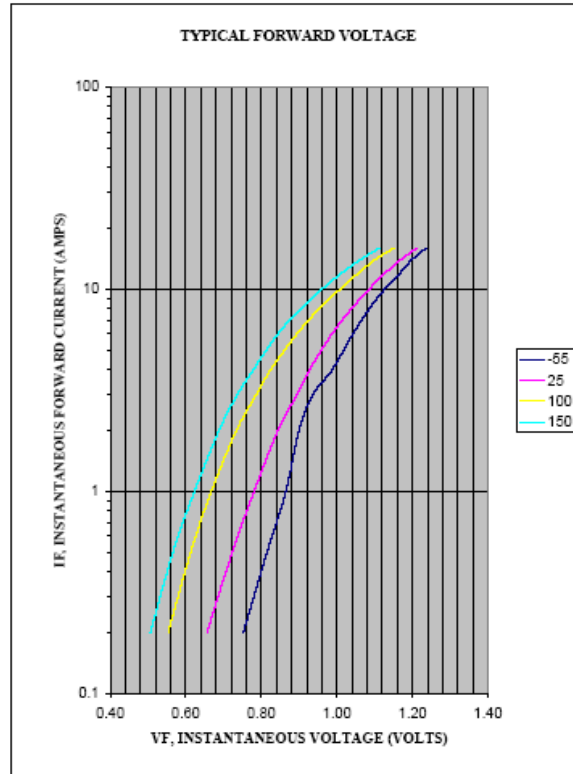


TO-257

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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