

TECHNICAL DATA DATA SHEET 181, REV. C.1 Formerly SHD3166/B

HERMETIC POWER ULTRAFAST RECTIFIER

DESCRIPTION: A 200 VOLT, 25 AMP, HERMETIC POWER ULTRAFAST RECTIFIER IN A SHD-1/1B PACKAGE.

MAXIMUM RATINGS

All ratings are @ $T_A = 25$ °c unless otherwise specified

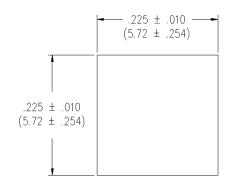
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	200	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T _C =100 °C)	lo	25	Amps
MAXIMUM REVERSE RECOVERY TIME $(I_f = 0.5A, I_r = 1.0A, I_{rr} = 0.25A)$	t _{rr}	35	nsec
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	Rθ _{JC}	1.3	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-55 to + 175	°C

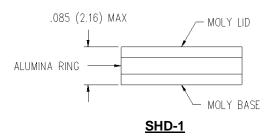
ELECTRICAL CHARACTRISTICS

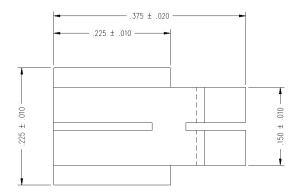
CHARACTRISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed T _C = 25 °C (I _f = 25 Amps)	V _f	.975	Volts
MAXIMUM FORWARD VOLTAGE DROP, Pulsed T _C = 125 °C (I _f = 25 Amps)	V _f	.875	Volts
MAXIMUM REVERSE CURRENT T _C = 25 °C I _r @ 200 PIV	I _r	25	μΑ
MAXIMUM REVERSE CURRENT T _C = 125 °C I _r @ 200 PIV	I _r	1.0	mA

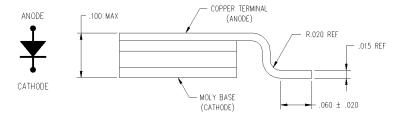
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MECHANICAL DIMENSIONS: In Inches / mm





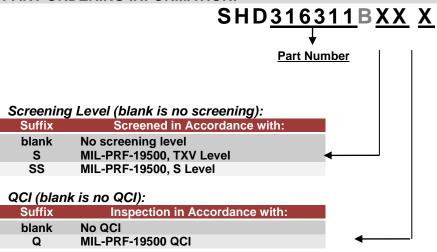




SHD-1B

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