

Part Number:

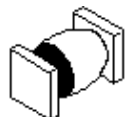
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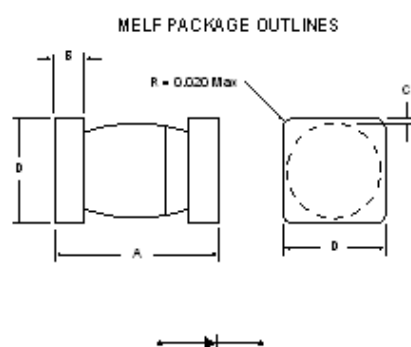
POWER RECTIFIER

PART NUMBER:SS5416US**PACKAGE STYLE:MELF-B****CONFIGURATION:SINGLE**ALL RATINGS ARE @ $T_c = 25\text{ }^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED.[Disclaimer](#)

MAXIMUM RATINGS / Conditions	SYMBOL	MAX	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT @ $T_c=55\text{ }^\circ\text{C}$)	I_o	3	Amps
MAXIMUM DC OUTPUT CURRENT @ $T_c=100\text{ }^\circ\text{C}$)	I_o	2	Amps
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT ($t= 8.3\text{ms}$, Sine)	I_{FSM}	80	Amps
MAXIMUM THERMAL RESISTANCE	$R_{\theta JC}$	6.5	$^\circ\text{C}/\text{W}$
OPERATING TEMPERATURE	$T_{J(MAX)}$	-65 to +175	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS / Conditions	SYMBOL	MAX	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 9\text{ Amps}$) $T_A = 25\text{ }^\circ\text{C}$	V_f	1.6	Volts
MAXIMUM REVERSE CURRENT $T_A = 25\text{ }^\circ\text{C}$ $T_A = 150\text{ }^\circ\text{C}$	I_r	1 20	μA μA
REVERSE RECOVERY TIME	t_{rr}	150	ns

MECHANICAL DIMENSIONS: In Inches / mm



Note: Cathode side of device is indicated by a dark band marked on body.

PACKAGE STYLE	DIMENSIONS - INCHES / MILLIMETERS			
	A	B	C	D
MELF-B	.200/.225 5.0/5.8	0.019/.028 .48/.72	.003 Min .076 Min	.137/.148 3.4/3.8

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