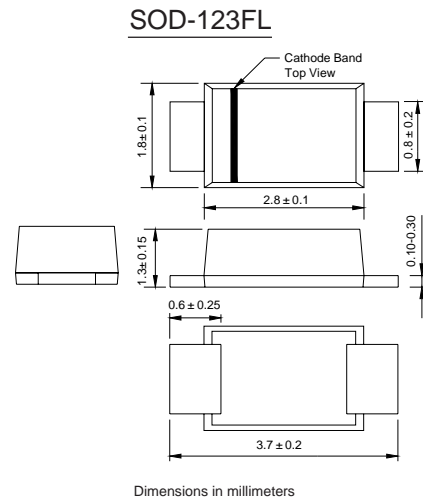


2 A low VF MEGA Schottky barrier rectifier

Features

- Metal to silicon rectifier, majority carrier conduction.
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications.
- Low power loss, high efficiency.
- High current capability, low V_F .
- High surge capacity.
- Glass passivated



Schottky Rectifiers

Absolute Maximum Ratings*

$T_A = 25^\circ\text{C}$ unless otherwise noted

CHARACTERISTICS	SYMBOL	PMEG4020EP							UNIT
		0.45	0.5	0.55	0.7	0.85	0.92	0.95	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40							V
Maximum RMS Voltage	V_{RMS}	28							V
Maximum DC Blocking Voltage	V_{DC}	40							V
Maximum Average Forward Rectified Current @ $T_L=100^\circ\text{C}$	$I(AV)$	2.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	I_{FSM}	60							A
Maximum Forward Voltage at 2.0A DC	V_F	0.45	0.5	0.55	0.7	0.85	0.92	0.95	V
Maximum DC Reverse Current @ $T_J=25^\circ\text{C}$	I_R	1.0							mA
at Rated DC Blocking Voltage @ $T_J=100^\circ\text{C}$		20							
Typical Junction Capacitance (Note1)	C_J	200							pF
Typical Thermal Resistance (Note2)	$R_{\theta JL}$	15							$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_J	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to + 150							$^\circ\text{C}$

FIG.1- PEAK FORWARD SURGE CURRENT

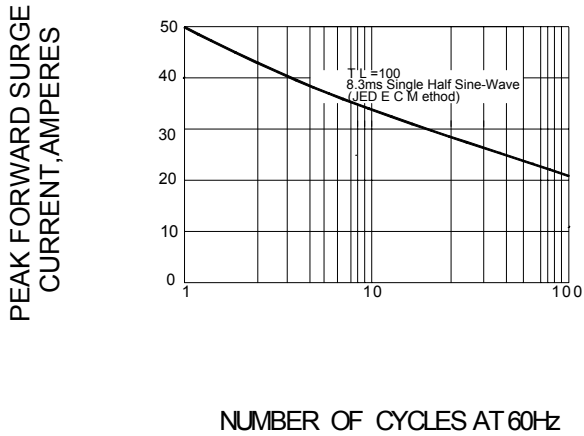


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

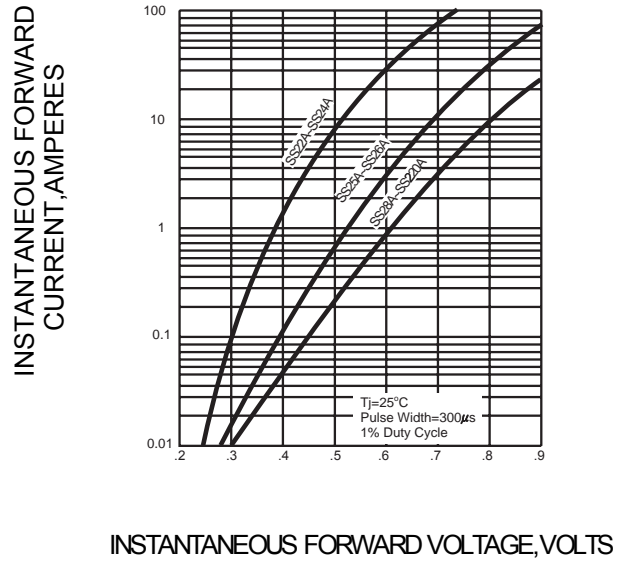


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

