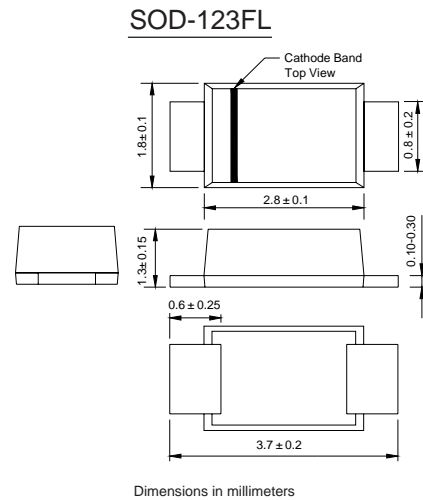


## 2 A low VF MEGA Schottky barrier rectifier

### 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



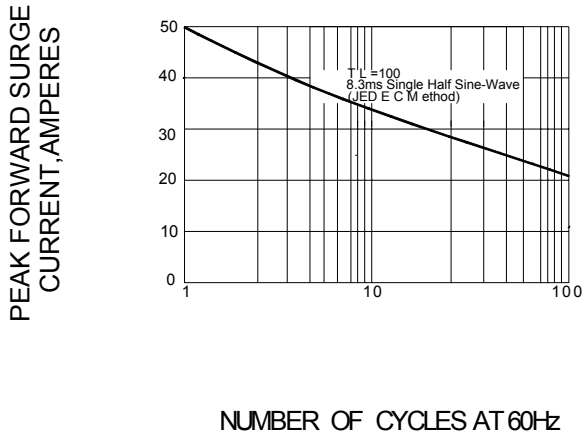
## Schottky Rectifiers

### Absolute Maximum Ratings\*

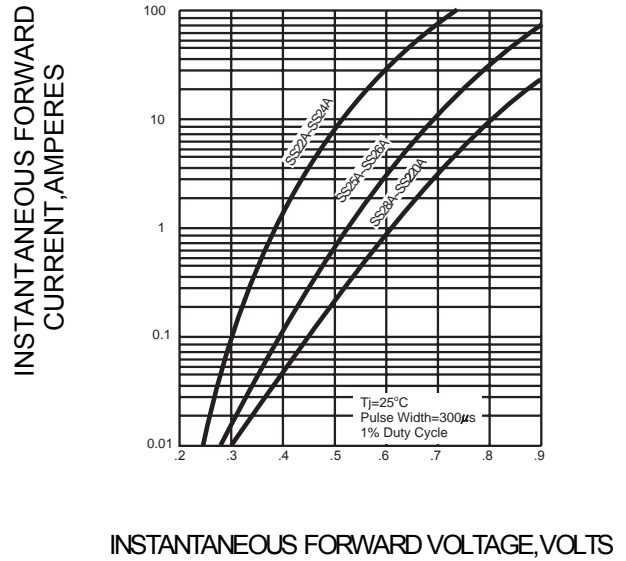
$T_A = 25^\circ\text{C}$  unless otherwise noted

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							$^\circ\text{C}$

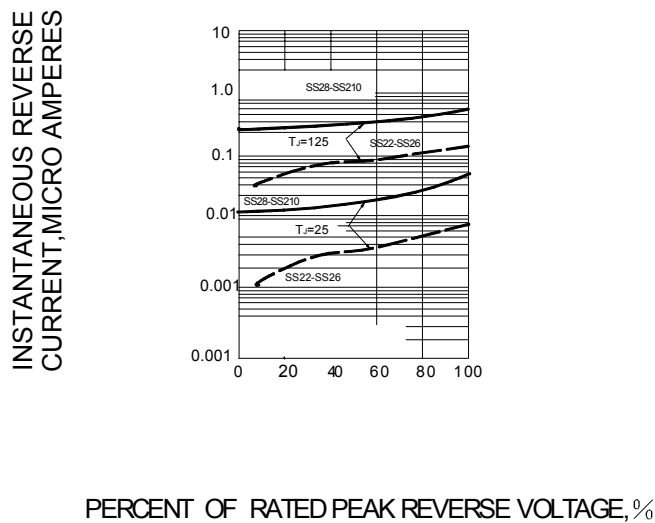
**FIG.1- PEAK FORWARD SURGE CURRENT**



**FIG.2 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.3 - TYPICAL REVERSE CHARACTERISTICS**



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