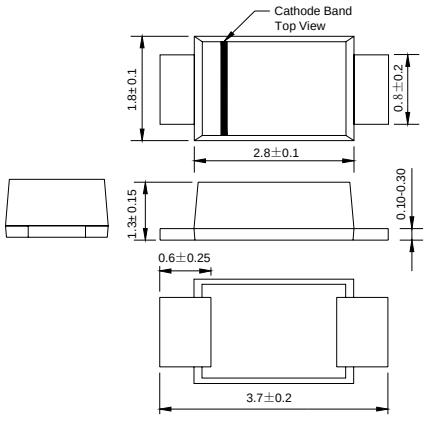
PMEG4020EP

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

SOD-123FL



Dimensions in millimeters

Schottky Rectifiers

Absolute Maximum Ratings*

T_A = 25°C unless otherwise noted

CHARACTERISTICS	SYMBOL	PMEG4020EP	UNIT
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 ℃	$I_{(AV)}$	2.0	A
Peak Forward Surage 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℃ at Rated DC Blocking Voltage @T_J=100℃	I_R	1.0 / 20	mA
Typical Junction Capacitance (Note1)	C_J	200	pF
Typical Thermal Resistance (Note2)	$R_{\theta JL}$	15	℃/W
Operating Temperature Range	T_J	-55 to +150	℃
Storage Temperature Range	T_{STG}	-55 to + 150	℃

FIG.1– PEAK FORWARD SURGE CURRENT

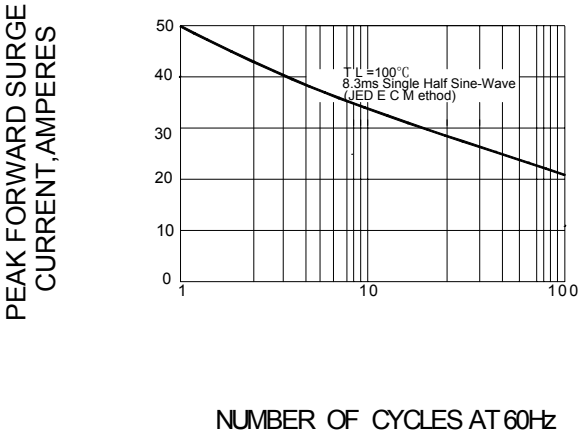


FIG.2 – TYPICAL FORWARD CHARACTERISTICS

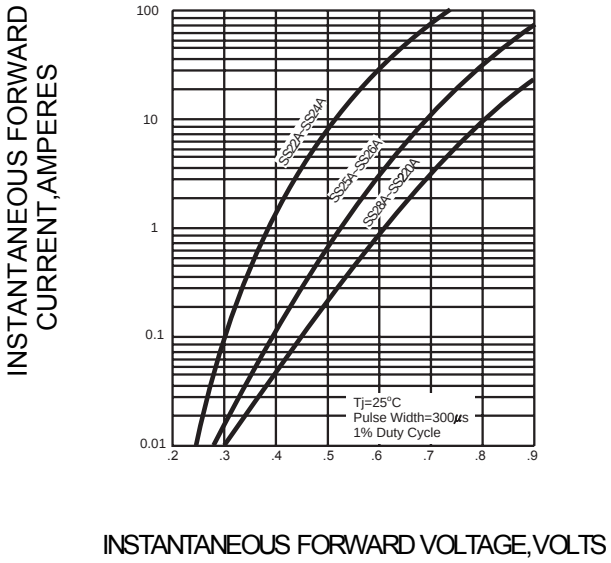


FIG.3 – TYPICAL REVERSE CHARACTERISTICS