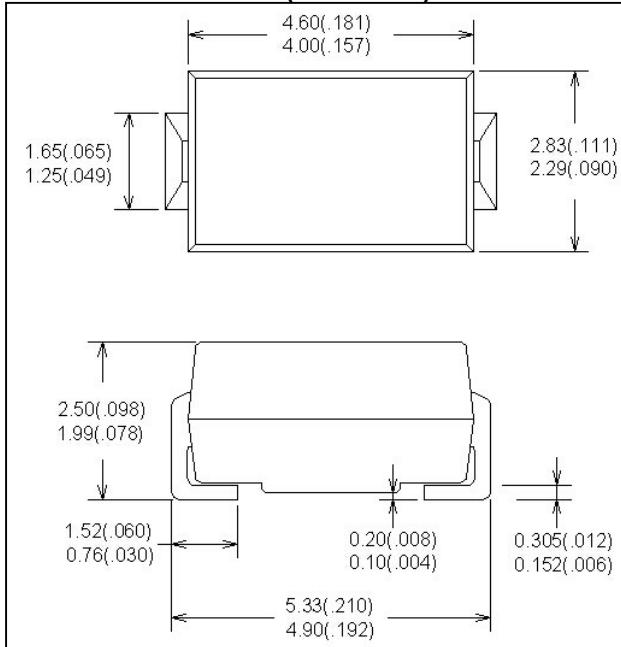


1.0 A / 2000 V

Package Outline Dimensions in mm (inches)

SMAW (SMA Wire)



Maximum ratings

Ratings at TA=25°C (unless otherwise specified)

Parameter	Symbol	EM520S	Unit
Marking		EM520	
Maximum recurrent peak reverse voltage	V _{R_{RM}}	2000	V
Maximum RMS voltage	V _{RMS}	1400	V
Maximum DC blocking voltage	V _{DC}	2000	V
Maximum average forward rectified current (Note1)	I _{F(AV)}	1.0	A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	30	A
Storage temperature range	T _S	-55 ~ 150	°C
Operating Junction temperature range	T _J	-55 ~ 125	°C
Thermal Resistance (Note1)	R _{thJL}	30	°C / W

Note1: Mounted on PCB with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas.

Electrical characteristics

Ratings at TA=25°C (unless otherwise specified)

Parameter	Test Conditions	Symbol	EM520S	Unit
Maximum forward voltage	I _F =1.0 A	V _F	1.10	V
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	I _R	5.0	μA
	TA=100°C		50	
Typical junction capacitance	4.0 V, 1 MHz	C _J	15	pF

Characteristics Curves

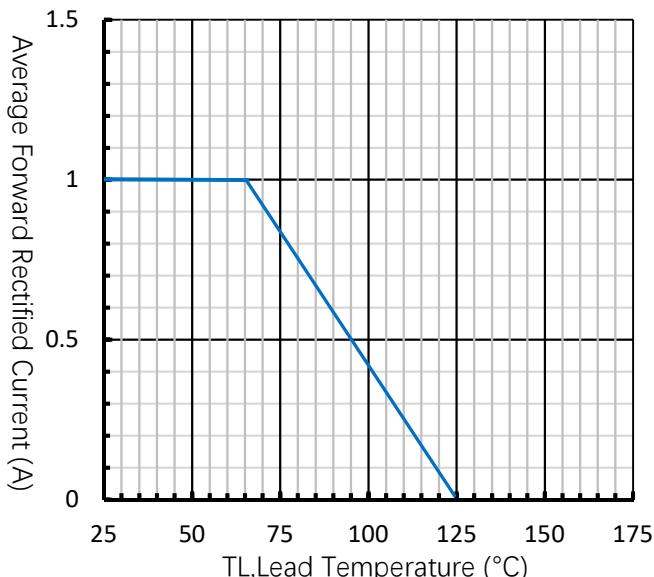


Fig.1 Forward Current Derating Curve

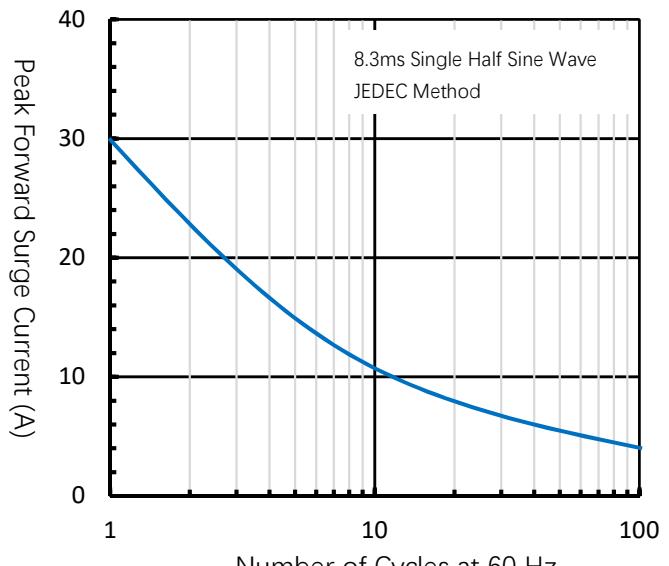


Fig.2 Forward Surge Current Capability

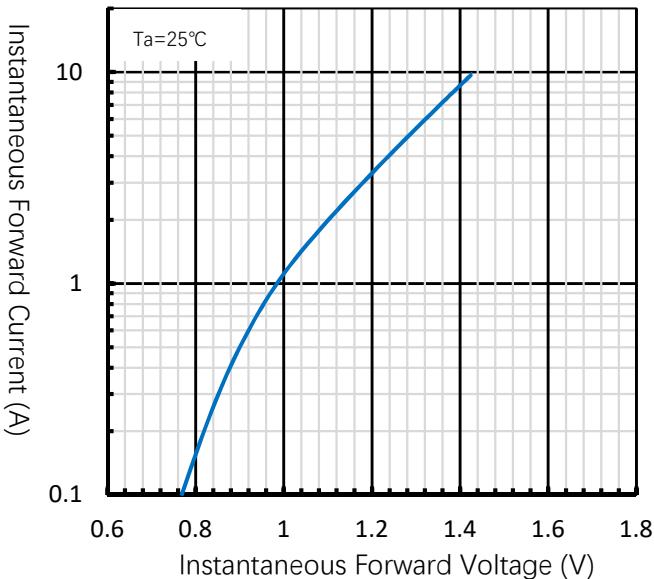


Fig.3 Typical Forward Characteristic

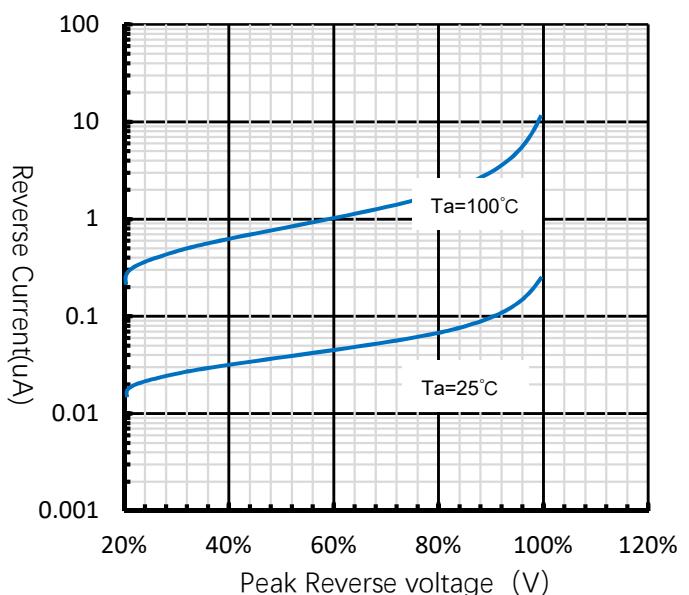


Fig.4 Typical Reverse Characteristics