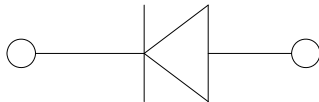
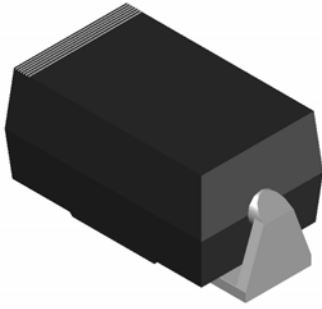


Plastic High Voltage Rectifier



Features

- VR 2KV
- IO 0.5A
- Glass passivated chip junction
- High surge current capability

Mechanical Data

- **Package:** SMA-W
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	EM520AG
Device marking code			EM520AG
Maximum Repetitive peak reverse voltage	VRRM	V	2000
Maximum RMS Voltage	VRMS	V	1400
Maximum DC Blocking Voltage	VDC	V	2000
Average rectified output current @ 60Hz sine wave, Resistance load, Ta=50°C (FIG.1)	IO	A	0.5
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Tj=25°C	IFSM	A	20
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C			40
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I ² t	A ² s	1.66
Typical junction capacitance @Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	Cj	pF	4.5
Storage temperature	Tstg	°C	-55 ~ +150
Junction temperature	Tj	°C	-55 ~ +150

■Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	EM520AG
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=0.5A	2
Maximum DC reverse current at rated DC blocking voltage per diode	IR	μA	Tj=25°C	5
			Tj=125°C	50



EM520AG

Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
EM520AG	F1	Approximate 0.067	5000	10000	80000	Reel

Thermal Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	EM520AG
Typical Thermal Resistance	R _{θJ-A}	°C/W	65 ⁽¹⁾

Note

(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

Characteristics (Typical)

FIG.1: I_o-T_a Curve

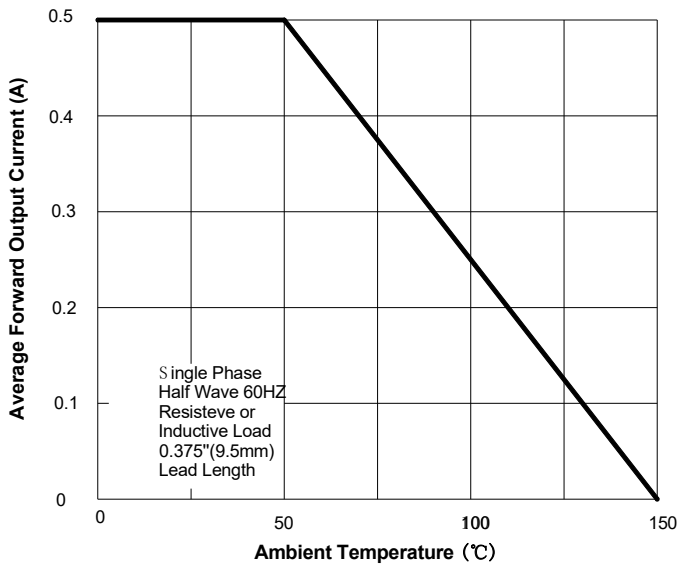


FIG.2: Forward Surge Current Capability

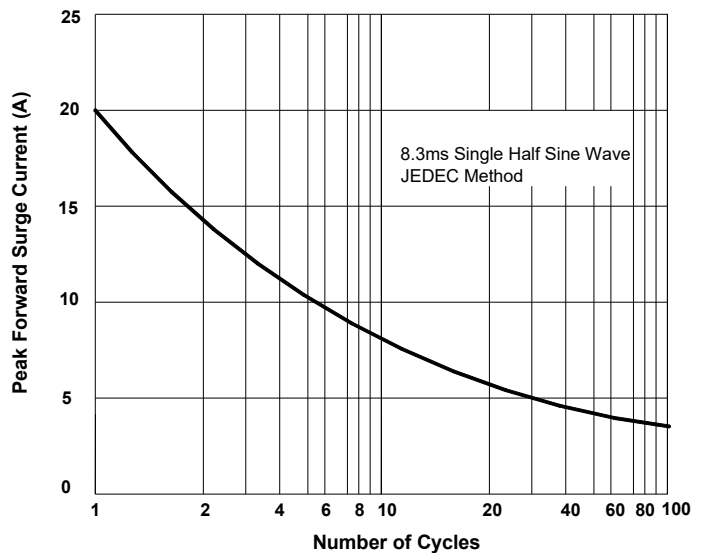


FIG.3: Forward Voltage

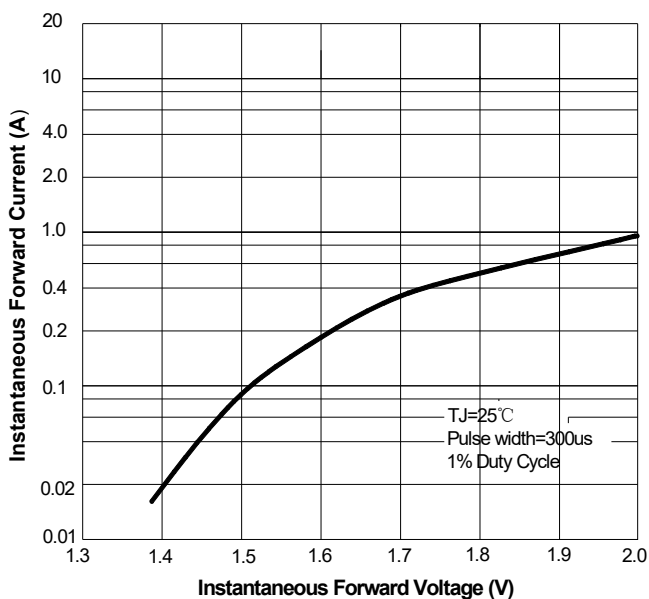
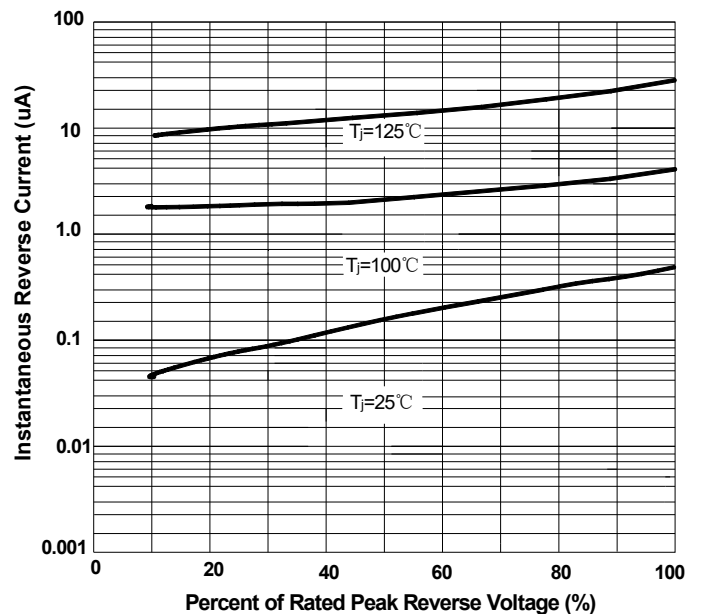


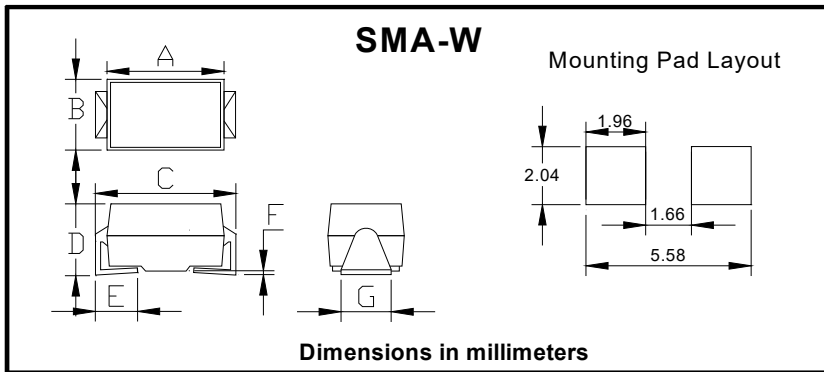
FIG.4: Typical Reverse Characteristics





EM520AG

■ Outline Dimensions



SMA-W		
Dim	Min	Max
A	4.00	4.60
B	2.40	2.65
C	4.80	5.31
D	2.05	2.45
E	0.80	1.50
F	0.10	0.20
G	1.15	1.80



EM520AG

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