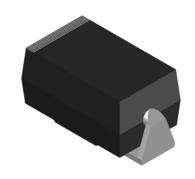




Plastic High Voltage Rectifier





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)	lo	А	0.5
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C			20
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	I _{FSM} A		40
Current squared time @1ms≤t8.3≤ms Tj=25°C,Rating of per diode	l²t	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	T _{stg}	℃	-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			T _j =25℃	5
rated DC blocking voltage per diode	IR	μA	T _j =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

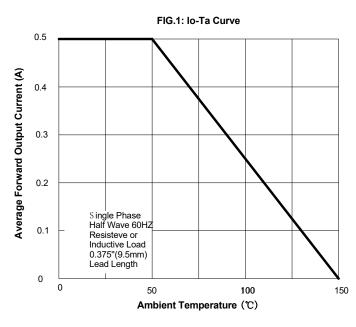
■Thermal Characteristics (Ta=25°C Unless otherwise specified)

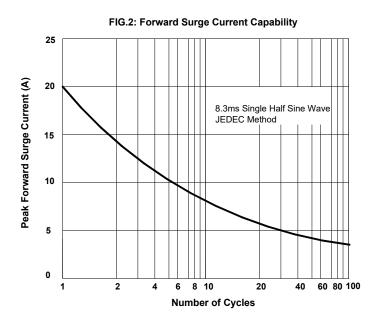
PARAMETER	SYMBOL	UNIT	EM520AG
Typical Thermal Resistance	$R_{\theta J-A}$	°C/W	65 ¹⁾

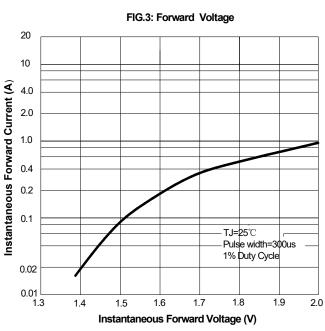
Note

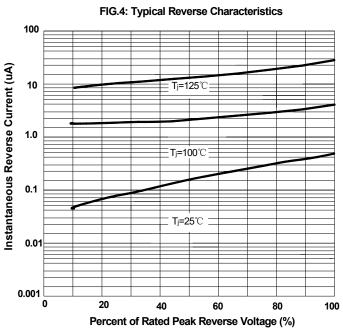
(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

■ Characteristics (Typical)





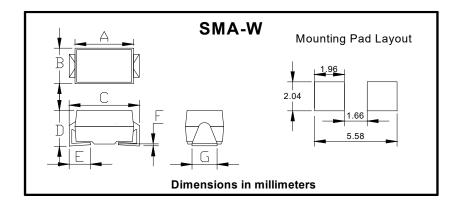






EM520AG

■ Outline Dimensions



SMA-W					
Dim	Min	Max			
Α	4.00	4.60			
В	2.40	2.65			
С	4.80	5.31			
D	2.05	2.45			
Е	0.80	1.50			
F	0.10	0.20			
G	1.15	1.80			



EM520AG

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