

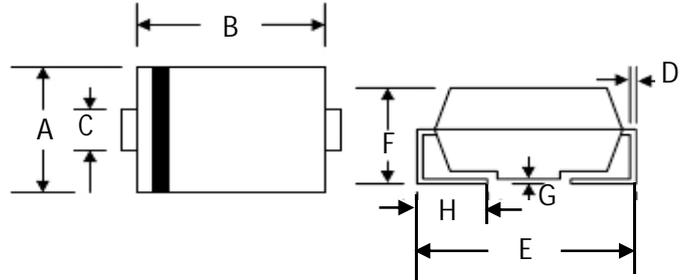


SURFACE MOUNT SILICON RECTIFIERS

Features

- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Surge Overload Rating to 30A Peak
- Low Power Loss
- Built-in Strain Relief
- Epoxy Material : UL94V-0

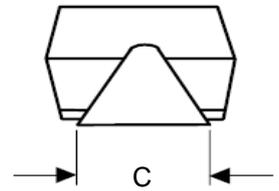
SMA/DO-214AC



Mechanical Data

- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)

SMA/DO-214AC		
Dim	Min	Max
A	2.50	2.90
B	4.00	4.60
C	1.40	1.60
D	0.152	0.305
E	4.80	5.28
F	2.00	2.44
G	0.051	0.203
H	0.76	1.52
All Dimensions in mm		



Maximum Ratings and Electrical Characteristics @Ta=25°C unless otherwise specified

Characteristic	Symbol	M1	M2	M3	M4	M5	M6	M7	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{rrm} V _{rvwm} V _r	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	V _{r(rms)}	35	70	140	280	420	560	700	V
Average Rectified Output Current @Ta=100, C	I _o	1.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30							A
Forward Voltage @I _f = 1.0A	V _{FM}	1.10							V
Peak Reverse Current @Ta = 25°C At Rated DC Blocking Voltage @Ta=125°C	I _{RM}	5.0 200							uA
Typical Junction Capacitance (Note 1)	C _j	15							pF
Typical Thermal Resistance (Note 2)	R _{θJL}	30							°C/W
Operating and Storage Temperature Range	T _j , T _{STG}	-55 to+150							°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
2. Mounted on P.C. Board with 8.0mm² land area.



RATINGS AND CHARACTERISTIC CURVES

Fig. 1 Forward Current Derating Curve

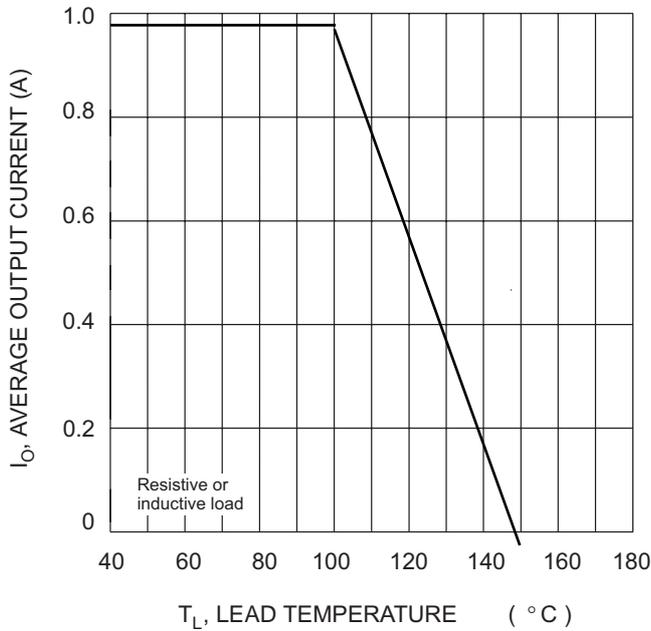


Fig. 2 Typical Forward Characteristics

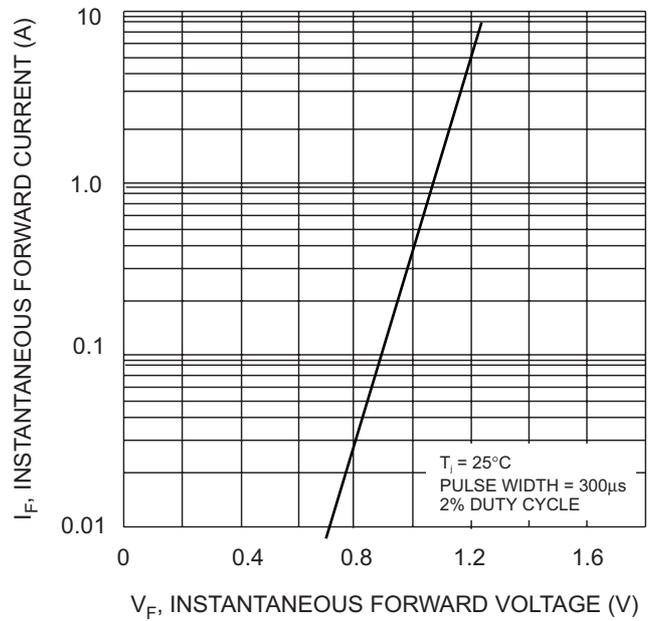


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

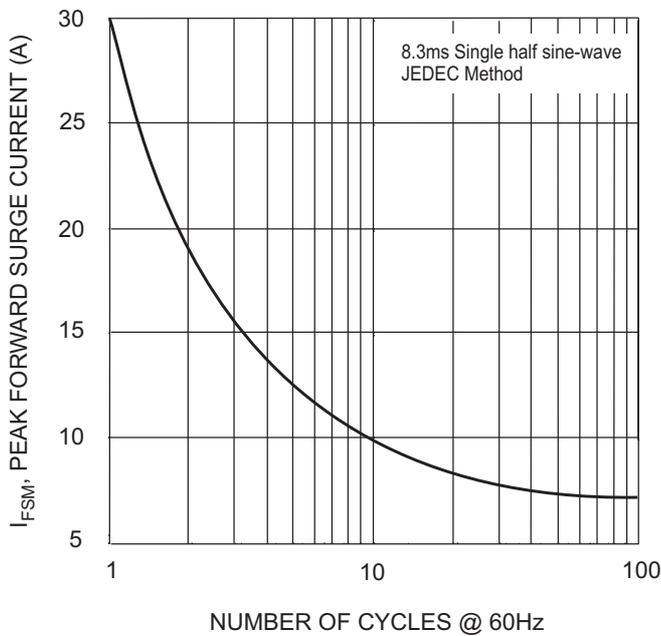
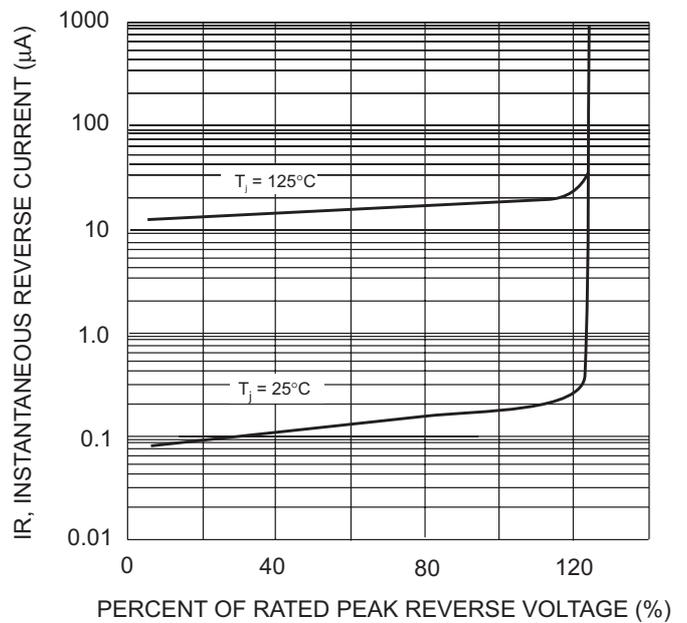


Fig. 4 Typical Reverse Characteristics





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