

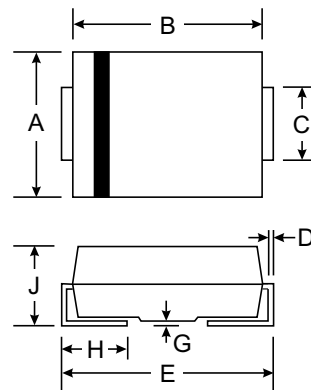
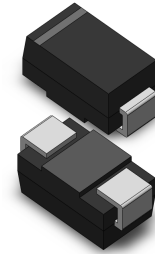
VOLTAGE RANGE: 1300V
CURRENT: 1.0 A

Features

- Cavity-free glass-passivated junction
- Ideal for automated placement
- Ultrafast reverse recovery time
- Low switching losses, high efficiency
- Avalanche surge energy capability

Mechanical Data

- Case: SMA/DO-214AC, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)



SMA(DO-214AC)		
Dim	Min	Max
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.10	0.20
H	0.76	1.52
J	2.01	2.62
All Dimensions in mm		

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

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	EGF1T	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	1300	V
RMS Reverse Voltage	$V_{R(RMS)}$	910	V
Average Rectified Output Current @ T _T = 75°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}	20	A
Forward Voltage Drop @ I _F = 1.0A	V _{FM}	3.0	V
Peak Reverse Current at Rated DC Blocking Voltage @ T _A = 25°C @ T _A = 125°C	I _{RM}	5.0 50	μA
Reverse Recovery Time (Note 2)	t _{rr}	75	ns
Typical Junction Capacitance (Note 1)	C _j	20	pF
Typical Thermal Resistance, Junction to Terminal	R _{θJT}	50	°C/W
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +150	°C

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
 2. Measured with I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A.

RATINGS AND CHARACTERISTICS CURVES ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

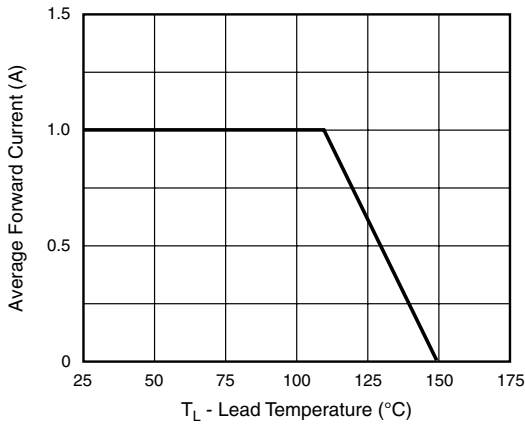


Figure 1. Maximum Forward Current Derating Curve

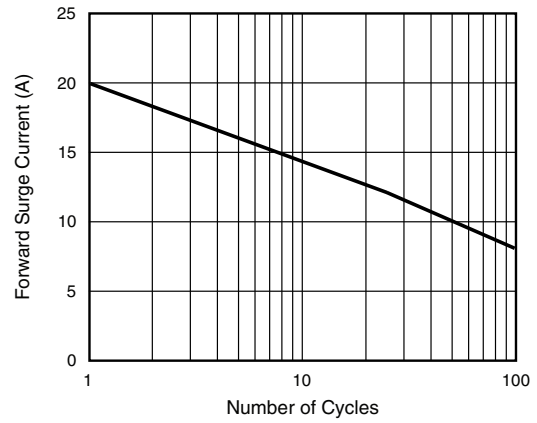


Figure 2. Maximum Non-Repetitive Forward Surge Current

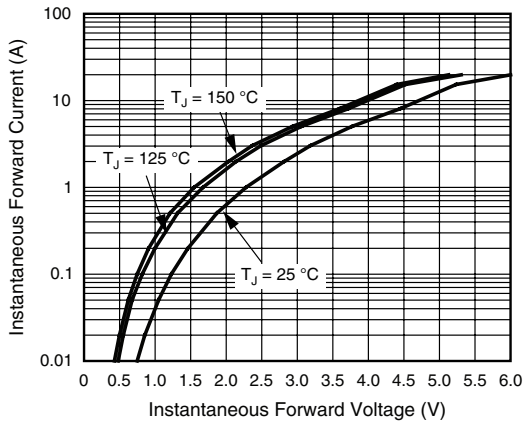


Figure 3. Typical Instantaneous Forward Characteristics

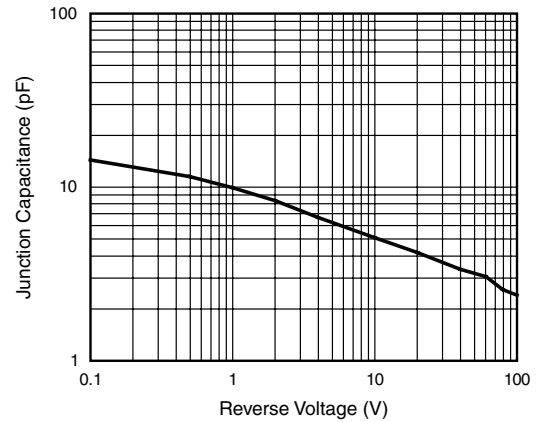


Figure 5. Typical Junction Capacitance Per Leg

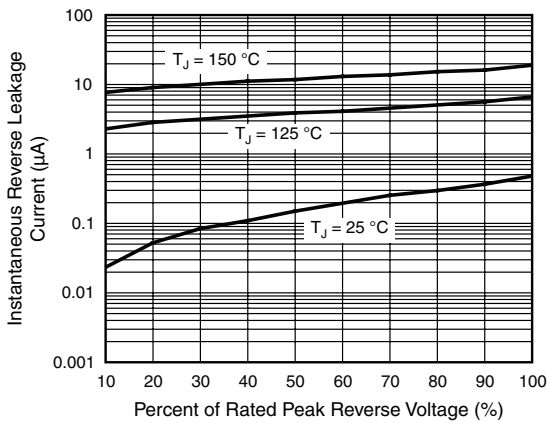


Figure 4. Typical Reverse Leakage Characteristics

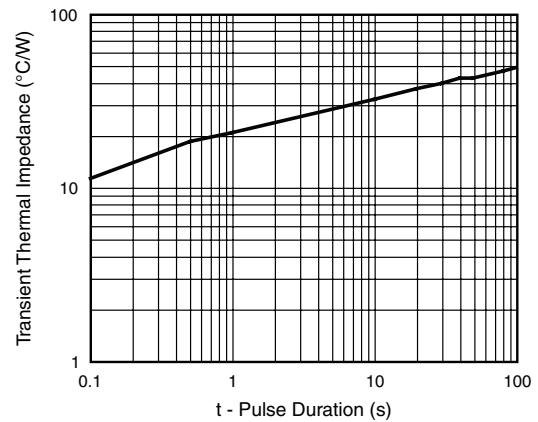


Figure 6. Typical Transient Thermal Impedance