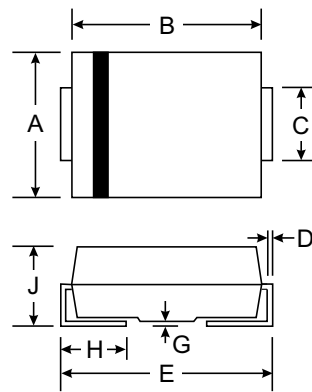


VOLTAGE RANGE: 20 - 100V
CURRENT: 3.0 A

Features

- For Surface Mounted Applications
- High Temperature Metallurgically Bonded Contacts
- Plastic Material - UL Flammability Classification 94V-0
- High Reliability
- High Current Capability and Low VF
- Submersible Temperature of 265°C for 10 Seconds in Solder Bath



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		

Mechanical Data

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



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	SM320A	SM330A	SM340A	SM350A	SM360A	SM380A	SM390A	SM3100A	Unit	
Peak Repetitive Reverse Voltage	V _{RRM}	20	30	40	50	60	80	90	100	V	
Working Peak Reverse Voltage	V _{RWM}										
DC Blocking Voltage	V _R										
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	35	42	56	64	71	V	
Average Rectified Output Current @T _L = 105°C	I _o	3.0								A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	100								A	
Forward Voltage @I _F = 3.0A	V _{FM}	0.55			0.75		0.85			V	
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}					2.0					mA
						20					
Typical Thermal Resistance (Note 1)	R _{θJL} R _{θJA}					10 50					°C/W
Operating Temperature Range	T _J					-65 to +125				°C	
Storage Temperature Range	T _{STG}					-65 to +150				°C	

Note: 1. Mounted on P.C. Board with 8.0mm² copper pad area.

RATINGS AND CHARACTERISTIC CURVES SM320A THRU SM3100A

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

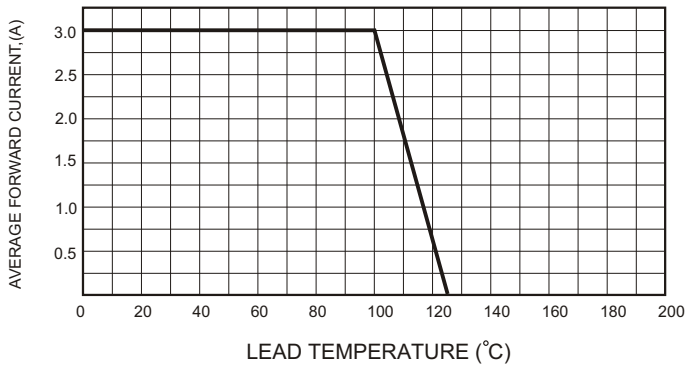


FIG.2-TYPICAL FORWARD CHARACTERISTICS

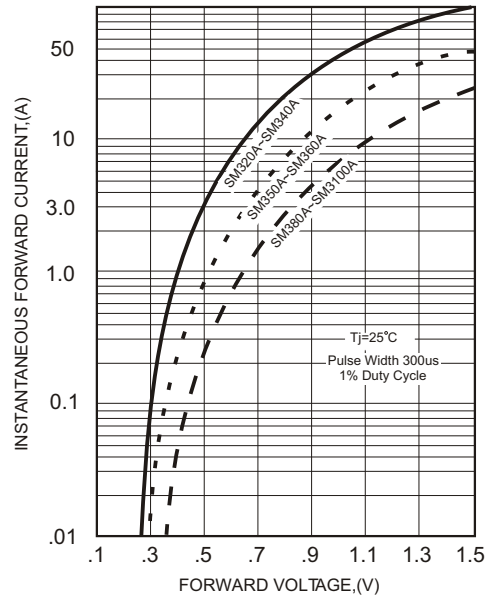


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

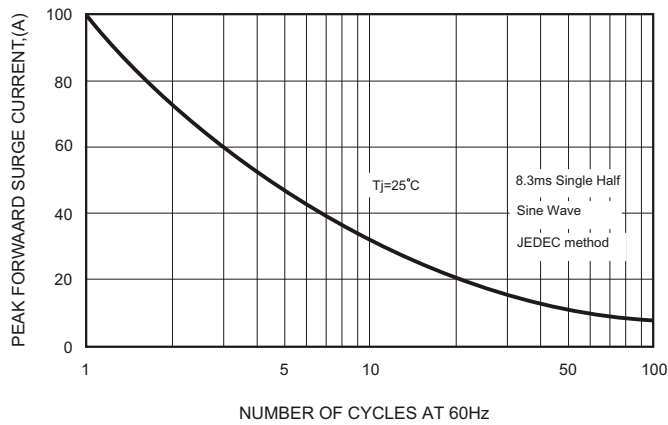


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

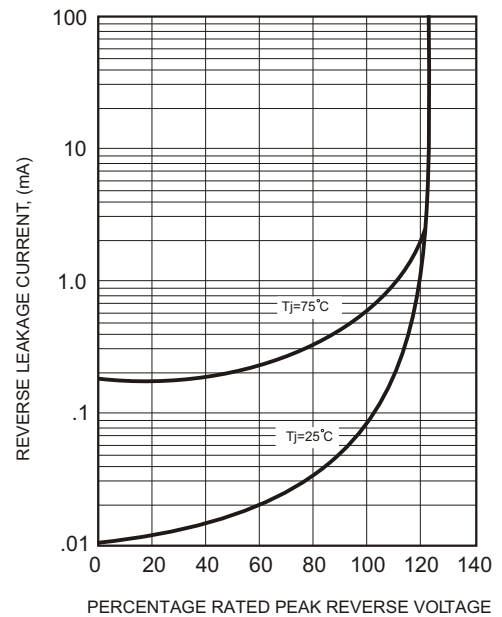


FIG.4-TYPICAL JUNCTION CAPACITANCE

