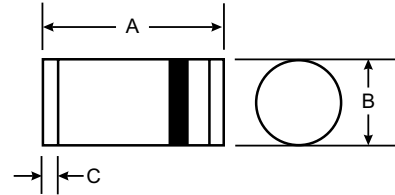


VOLTAGE RANGE: 20 - 60V
CURRENT: 3.0 A

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



Mechanical Data

- Case: LL41/DO-213
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch

LL41/ DO-213AB		
Dim	Min	Max
A	4.80	5.20
B	2.40	2.60
C	0.55 Nominal	
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	SM320	SM330	SM340	SM350	SM360	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	20	30	40	50	60	V
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	35	42	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		V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	2.0			20		mA
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 SM320 THRU SM360

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

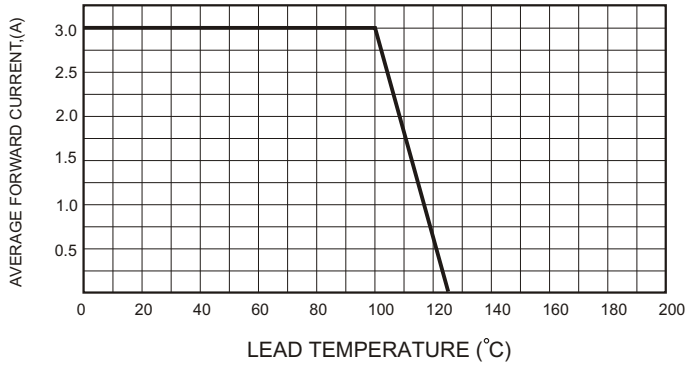


FIG.2-TYPICAL FORWARD CHARACTERISTICS

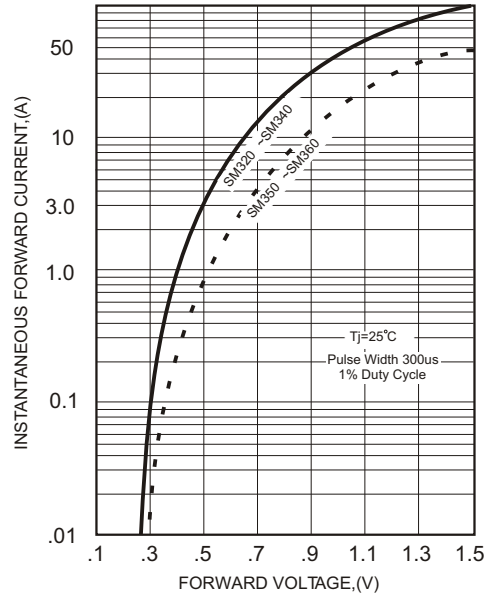


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

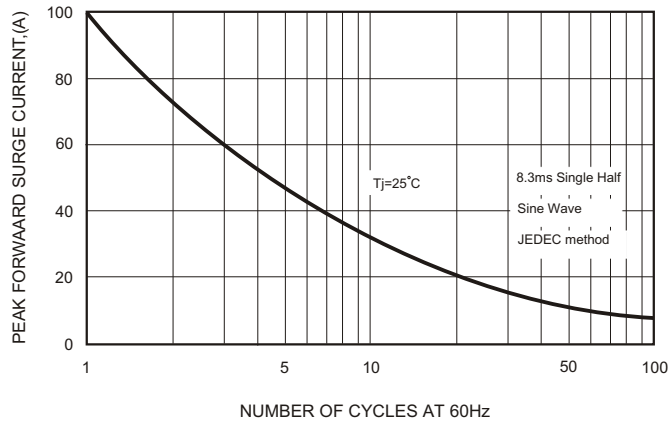


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

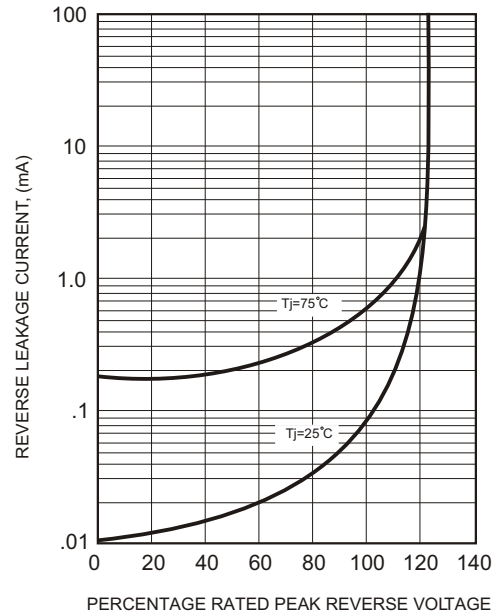


FIG.4-TYPICAL JUNCTION CAPACITANCE

