

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

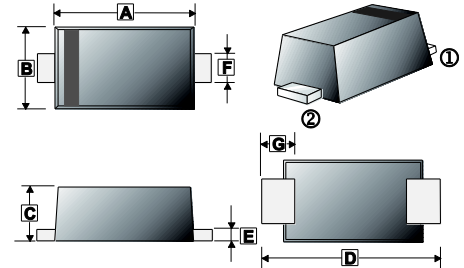
FEATURES

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Low Forward Voltage

MECHANICAL DATA

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Lead: Solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color Band Denotes Cathode End

SOD-123FL



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.40	3.10	E	0.05	0.30
B	1.40	2.10	F	0.50	1.35
C	0.80	1.55	G	0.80 TYP.	
D	3.30	3.95			

MARKING

V6

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-123FL	3K	7 inch

ORDER INFORMATION

Part Number	Type
SM360FL	Lead (Pb)-free
SM360FL-C	Lead (Pb)-free and Halogen-free

ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Rating	Unit
Maximum Recurrent Reverse Voltage	V _{RRM}	60	V
Maximum RMS Voltage	V _{RMS}	42	
Maximum DC Blocking Voltage	V _{DC}	60	
Maximum Average Forward Rectified Current	I _F	3	A
Peak Forward Surge Current @8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	80	A
Maximum Instantaneous Forward Voltage @3A	V _F	0.65	V
Maximum DC Reverse Current	I _R	0.5	mA
Typical Junction Capacitance ¹	C _J	70	pF
Typical Thermal Resistance	R _{θJL}	20	°C / W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-50~125	°C

Note:

1. Measured @f=1MHz, V_R=4V

CHARACTERISTIC CURVES

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

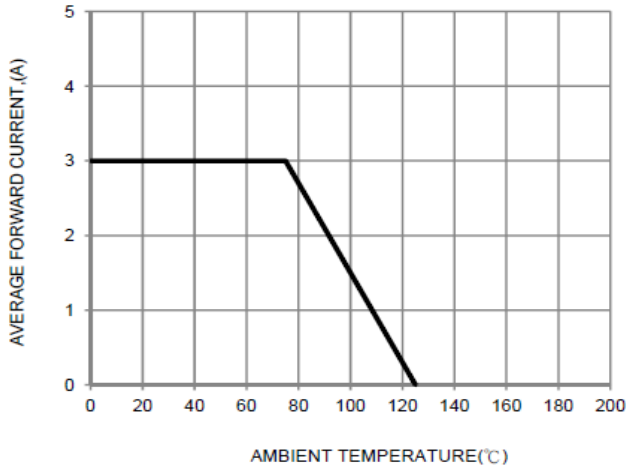


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

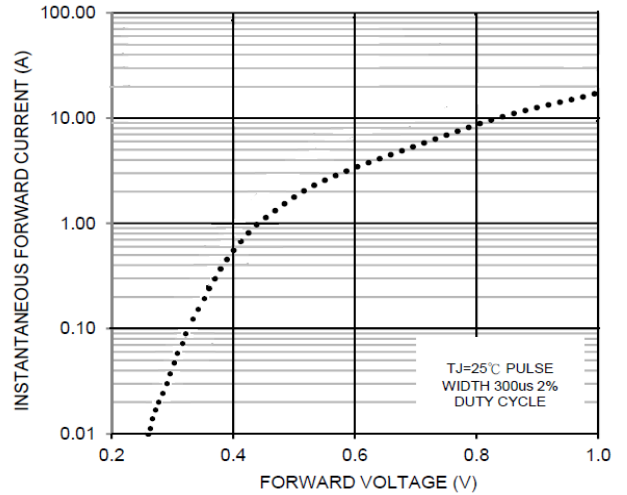


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

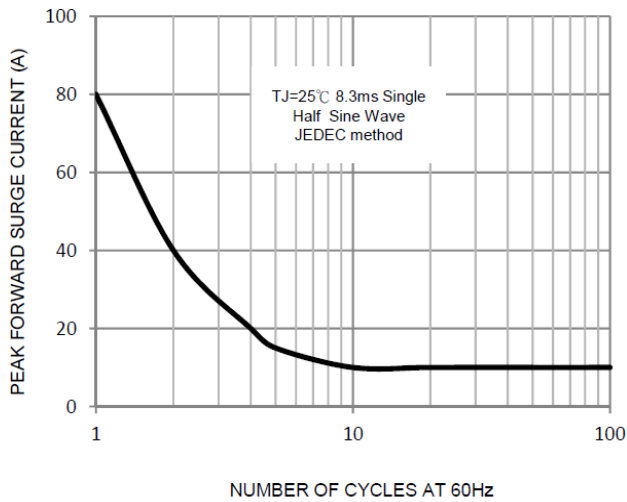


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

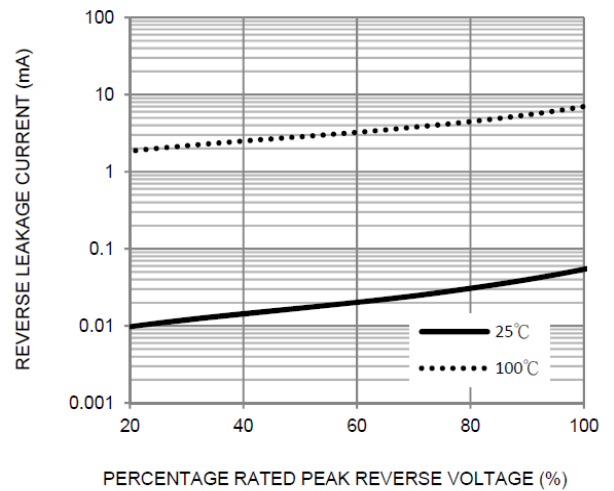


FIG. 5-TYPICAL JUNCTION CAPACITANCE

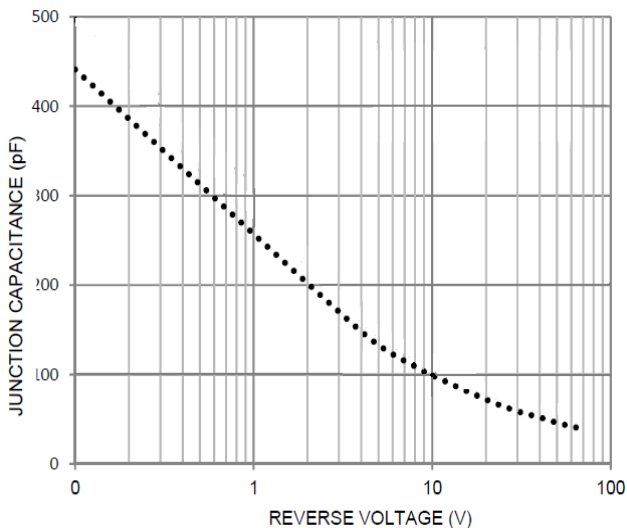


FIG. 6-MOUNTING PAD LAYOUT

