

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

FEATURES

- High Current Capability
- High Surge Current Capability
- Low Reverse Current

MARKING

X4

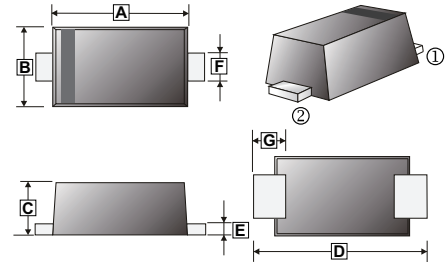
PACKAGE INFORMATION

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

ORDER INFORMATION

Part Number	Type
SK140UFL	Lead (Pb)-free
SK140UFL-C	Lead (Pb)-free and Halogen-free

SOD-123FL



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.4	3.10	E	0.05	0.30
B	1.55	2.00	F	0.80	1.35
C	0.80	1.55	G	0.8 (Typ.)	
D	3.3	3.90			

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

Parameter	Symbol	Ratings	Unit
Maximum Recurrent Reverse Voltage	V _{RRM}	40	V
Maximum RMS Voltage	V _{RMS}	28	V
Maximum DC Blocking Voltage	V _{DC}	40	V
Maximum Average Forward Rectified Current	I _F	1	A
Peak Forward Surge Current @8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	50	A
Maximum Instantaneous Forward Voltage @I _F =1A	T _A =25°C V _F	0.34	V
Peak Reverse Current @Rated DC Blocking Voltage	T _A =25°C I _R	0.2	mA
	T _A =100°C	15	
Typical Junction Capacitance ¹	C _J	350	pF
Typical Thermal Resistance from Junction-Case	R _{θJC}	35	°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55~150	°C

Note:

1. Measured at 1MHz and applied reverse voltage of 4V DC.

CHARACTERISTIC CURVES

FIG. 1-Typical Forward Current Derating Curve

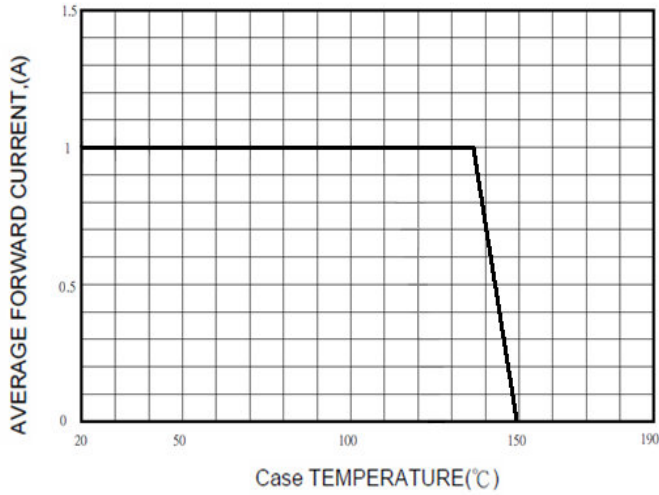


FIG. 2-Typical Forward Characteristics

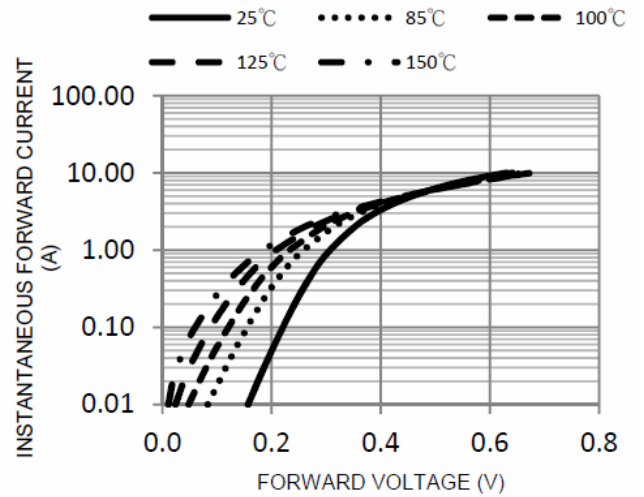


FIG. 3-Maximum Non-Repetitive Forward Surge Current

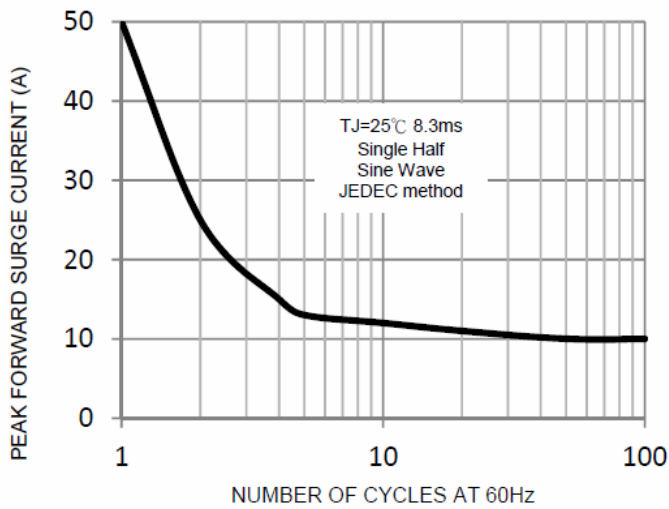


FIG. 4-Typical Reverse Characteristics

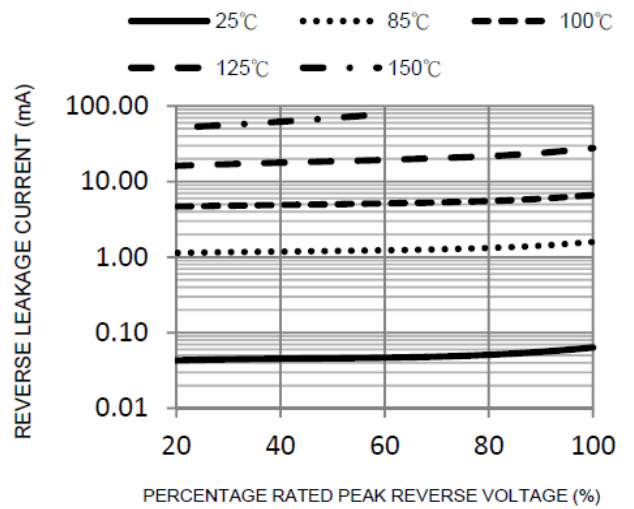


FIG. 5-Typical Junction Capacitance

