

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

FEATURES

- Low forward surge current
- Ideal for surface mounted applications
- Low leakage current

MECHANICAL DATA

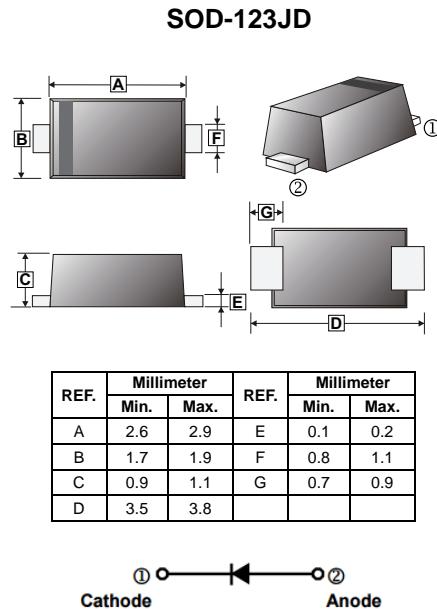
- Case: JEDEC SOD-123JD, molded plastic over passivated chip
- Terminals: Solder Plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end

MARKING

S34

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-123JD	3K	7' inch



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.6	2.9	E	0.1	0.2
B	1.7	1.9	F	0.8	1.1
C	0.9	1.1	G	0.7	0.9
D	3.5	3.8			

ORDER INFORMATION

Part Number	Type
SK14JD-C	Lead (Pb)-free and Halogen-free

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, de-rate current by 20%).

Parameter	Symbol	Rating	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 _(AV)	1	A
Peak Forward Surge Current ^{8.3ms single half sine-wave superimposed on rated load (JEDEC method)}	I _{FSM}	80	A
Typical thermal resistance junction to Lead ²	R _{θJL}	20	°C / W
Typical thermal resistance junction to Case ²	R _{θJC}	40	°C / W
Operating & Storage Temperature Range	T _J , T _{STG}	-55~125, -55~150	°C

ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Typ.	Max.	Unit	Test Condition
Maximum Instantaneous Forward Voltage	V _F	0.38	-	V	I _F =500mA
		0.41	-		I _F =1A
		-	0.55		I _F =3A
Maximum DC Reverse Current at Rated DC Blocking Voltage ²	I _R	-	0.5	mA	T _A =25°C
		-	10		T _A =100°C
Typical Junction Capacitance ¹	C _J	250	-	pF	

Notes:

1. Measured at f=1.0MHz, V_R=4.0V
2. FR4 Board Heat sink size: 10*10*0.2mm.

CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

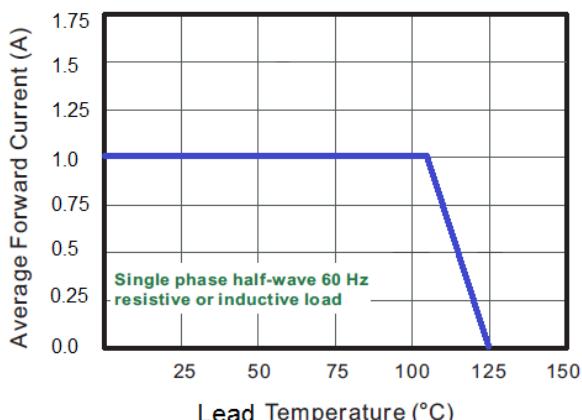


Fig.3 Typical Forward Characteristic

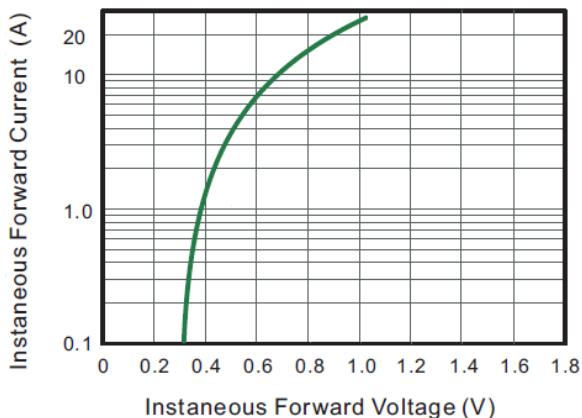


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

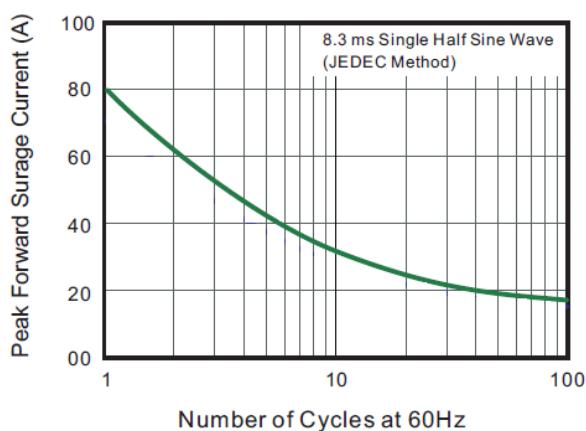


Fig.2 Typical Reverse Characteristics

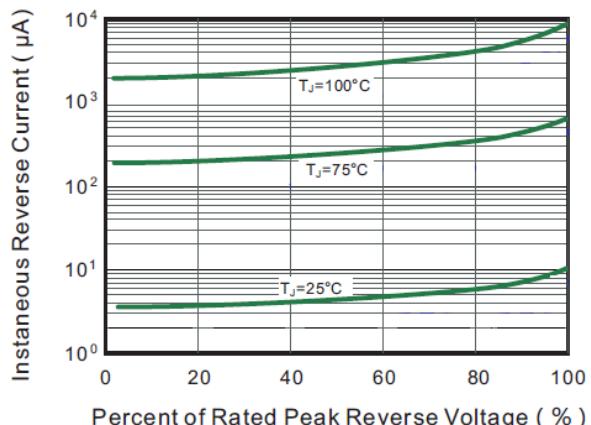


Fig.4 Typical Junction Capacitance

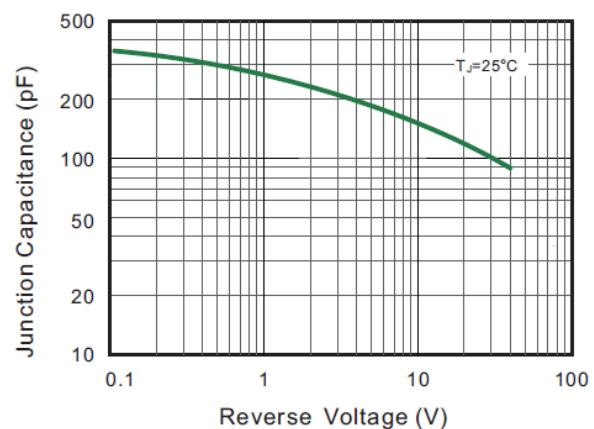


Fig.6- Typical Transient Thermal Impedance

