

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

FEATURES

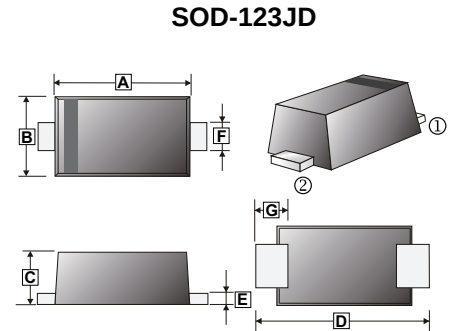
- Low forward surge current
- Ideal for surface mounted applications
- Low leakage current

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

Product	Marking Code	Product	Marking Code
SM220JD	S24	SM2100JD	S210
SM240JD	S24	SM2150JD	S215
SM260JD	S26	SM2200JD	S220



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			

PACKAGE INFORMATION

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

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	Part Number						Unit
			SM 220JD	SM 240JD	SM 260JD	SM 2100JD	SM 2150JD	SM 2200JD	
Maximum Recurrent Reverse Voltage		V _{RRM}	20	40	60	100	150	200	V
Maximum RMS Voltage		V _{RMS}	14	28	42	70	105	140	V
Maximum DC Blocking Voltage		V _{DC}	20	40	60	100	150	200	V
Maximum Instantaneous Forward Voltage @ I _{FM} = 2A		V _F	0.55		0.7	0.85	0.95		V
Maximum Average Forward Rectified Current		I _(AV)	2						A
Peak Forward Surge Current8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	40						A
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C	I _R	0.5			0.3			mA
	T _A =100°C		10			5			
Typical Junction Capacitance ¹		C _J	220		80				pF
Typical thermal resistance junction to Lead ²		R _{θJL}	20						℃ / W
Typical thermal resistance junction to Lead ²		R _{θJC}	40						℃ / W
Operating Temperature Range		T _J	-55~150						℃
Storage Temperature Range		T _{STG}	-55~150						℃

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

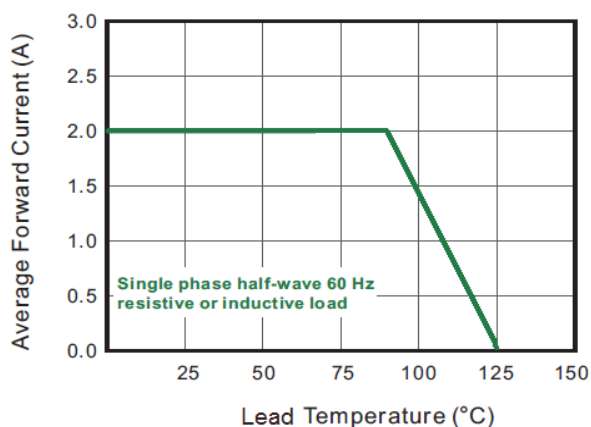


Fig.2 Typical Reverse Characteristics

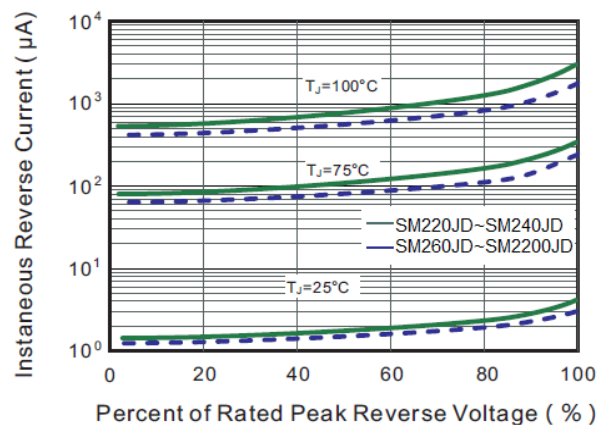


Fig.3 Typical Forward Characteristic

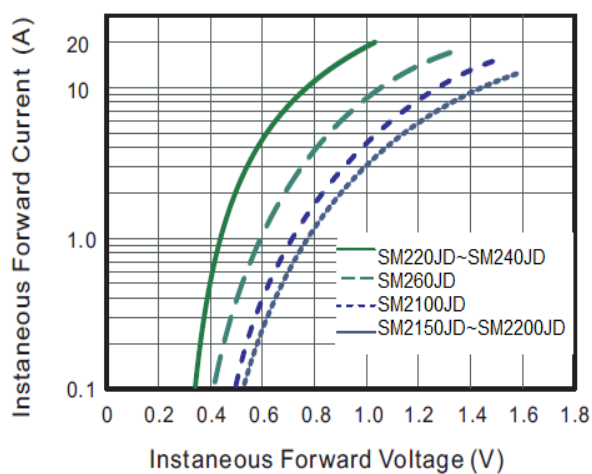


Fig.4 Typical Junction Capacitance

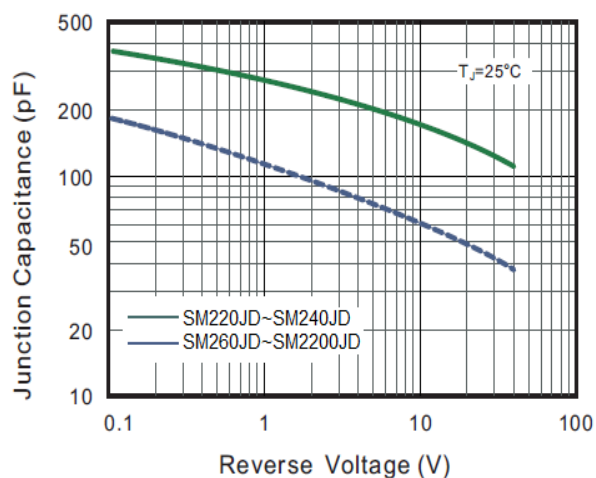


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

