

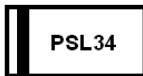
RoHS Compliant Product

A suffix of "-C" specifies halogen-free and RoHS Compliant

FEATURES

- Heatsink structure
- Low profile, typical thickness 0.8mm
- Low forward voltage drop
- Super Low VF Schottky barrier diodes
- Moisture sensitivity: level 1, per J-STD-020
- High temperature soldering guaranteed: 260°C/10 seconds

MARKING

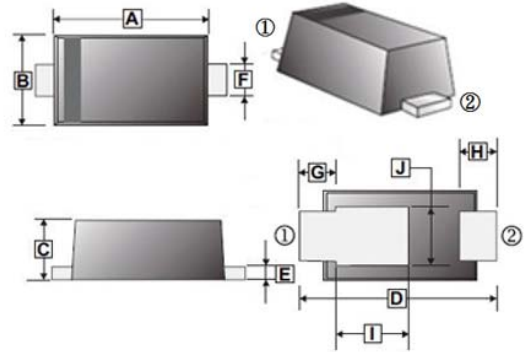


↑
Cathode

PACKAGE INFORMATION

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

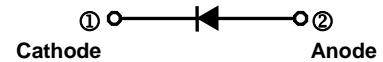
SOD-123DT



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.9	3.1	F	0.85	1.05
B	1.9	2.1	G	0.6 REF.	
C	0.75	0.9	H	0.4	0.85
D	3.5	3.9	I	1.66 REF.	
E	0.1	0.25	J	1.3	1.7

ORDER INFORMATION

Part Number	Type
SK320DT~SK340DT	Lead (Pb)-free
SK320DT-C~SK340DT-C	Lead (Pb)-free and Halogen-free



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Part Number			Unit
		SK320DT	SK330DT	SK340DT	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	V
Maximum RMS Voltage	V _{RMS}	14	21	28	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	V
Minimum Breakdown Voltage @I _R =1mA	V _{BR}	40	40	40	V
Maximum Average Forward Rectified Current	I _F	3			A
Peak Forward Surge Current@ 8.3 ms single half sine-wave Superimposed on rate load	I _{FSM}	80			A
Rating for Fusing (t<8.3ms)	I ² t	26.7			A ² S
Maximum Instantaneous Forward Voltage	V _F	I _F =1A, T _A =25°C			V
		I _F =3A, T _A =25°C			
		I _F =3A, T _A =125°C			
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	T _A =25°C			uA
		T _A =125°C			mA
Typical Junction Capacitance	C _J	4V,1MHz	210		pF
Typical Thermal Resistance from Junction to Ambient ¹	R _{θJA}	60			°C / W
Typical Thermal Resistance from Junction to Case ²	R _{θJC}	28			
Typical Thermal Resistance from Junction to Lead ¹	R _{θJL}	6			
Operating Junction and Storage Temperature	T _J , T _{STG}	-55~150			°C

Notes:

1. The thermal resistance from junction to ambient or lead, mounted on P.C.B with 5×5mm copper pads,2 OZ,FR4 PCB.
2. The thermal resistance from junction to case, mounted on P.C.B with recommended copper pads,2 OZ,FR4 PCB.

CHARACTERISTIC CURVES

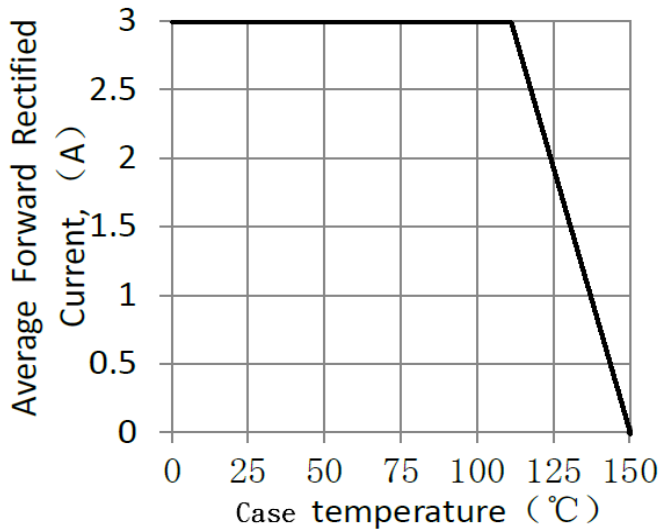


Figure 1. Forward Current Derating Curve

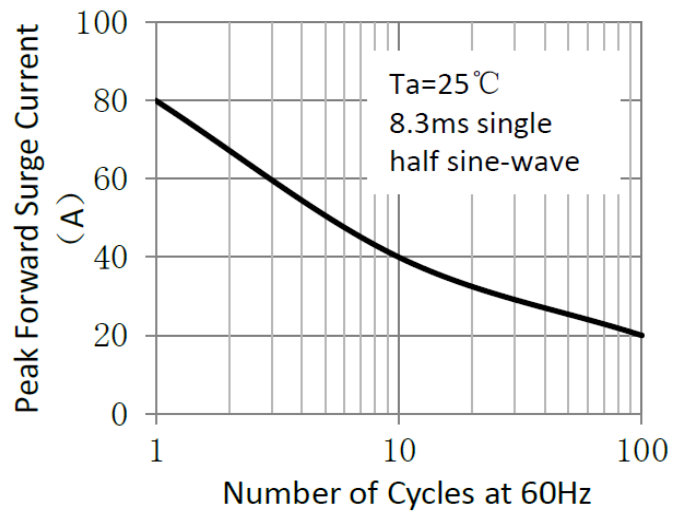


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

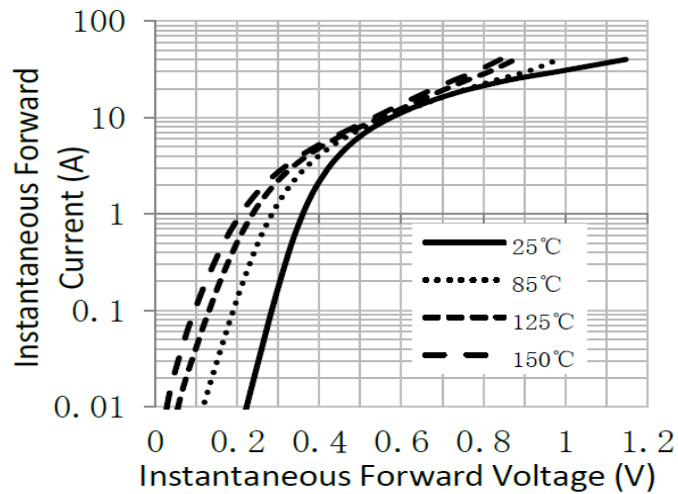


Figure 3. Typical Instantaneous Forward Characteristics

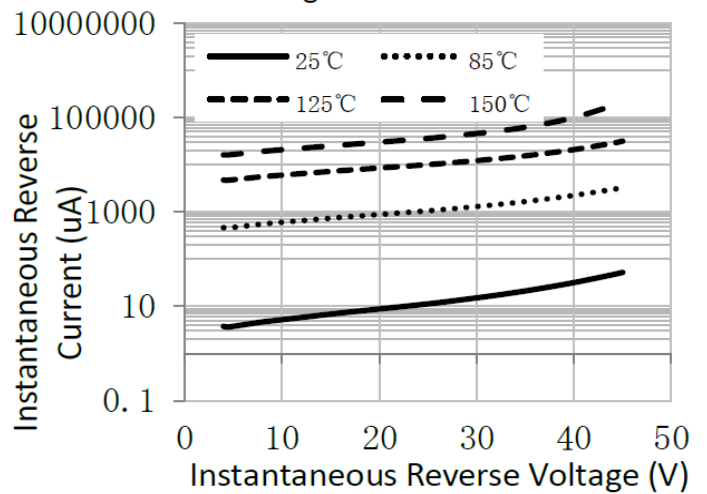


Figure 4. Typical Reverse Characteristics

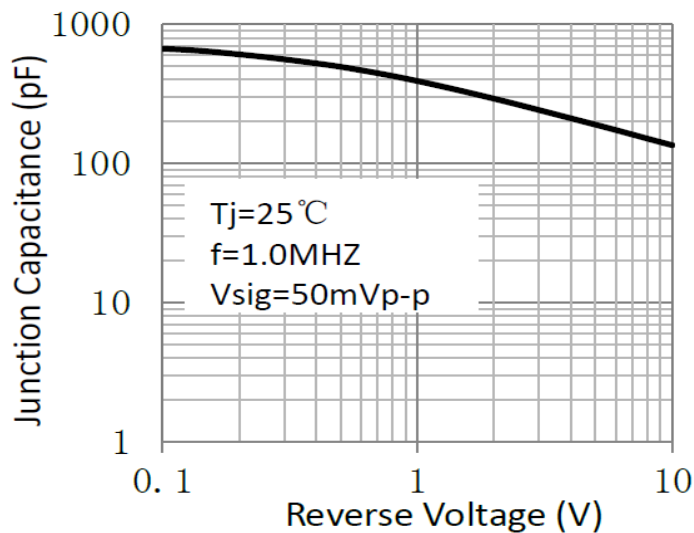


Figure 5. Typical Junction Capacitance