Schottky Diode

Pinning

1.Cathode	2.Anode

SOD-323

Features

- Fast Switching Device
- Low Turn-on Voltage
- PN Junction Guard Ring for Transient and ESD Protection

Mechanical Data

- SOD-323 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any

Marking Code	
BAS70WS	K73

Maximum Ratings & Thermal Characteristics

(Ratings at 25℃ ambient temperature unless otherwise specified.)

Parameters	Symbol	Value	Unit
Reverse Voltage	V_R	70	V
Peak Reverse Voltage	V_{RRM}	70	V
Power Dissipation	P_D	200	mW
Operating junction temperature	T_J	-55-+125	℃
Storage temperature range	T_{STG}	-65-+150	℃
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	625	K/W
Continuous Forward Current	I_F	70	mA
Non-repetitive Peak Forward Surge Current @tp=1us; TA=25℃	I_{FSM}	100	mA

Electrical Characteristics

(Ratings at 25℃ ambient temperature unless otherwise specified).

Parameter	Test Condition	Symbols	Limits			Unit
			Min	Typ	Max	
Reverse Voltage(note 2)	I_R=10uA	$V_{(BR)}$	70	-	--	V
Reverse Leakage Current	V_R=50V; tp<300us	I_R	-	-	30	nA
Forward Voltage	I_F=1.0mA; tp<300us	V_F	-	-	0.41	V
	I_F=15mA; tp<300us		-	-	1.00	
Reverse Recovery Time	I_F=I_R=10mA to I_R=10mA RL=100Ω	T_{RR}	-	-	5	uS
Capacitance	V_R=0V, f=1MHZ	C_T	-	-	2	pF

Notes:

1. Valid provided that electrodes are kept at ambient temperature
2. Test period<3000us

Typical Characteristics

Fig.1 Forward Current Derating Curve

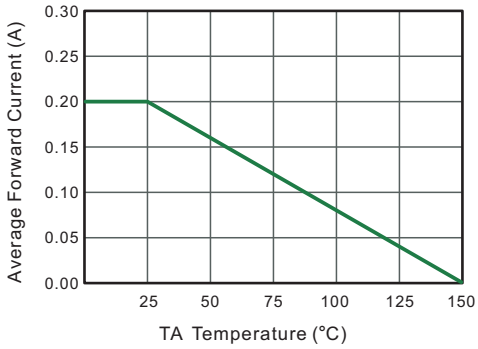


Fig.2 Typical Reverse Characteristics

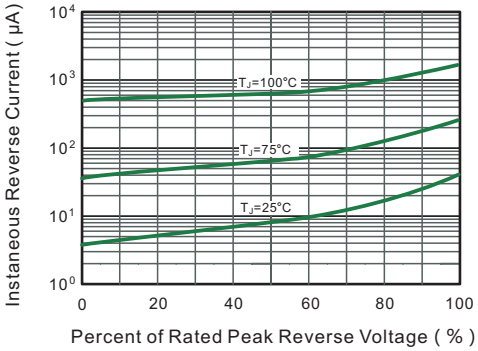


Fig.4 Typical Forward Characteristics

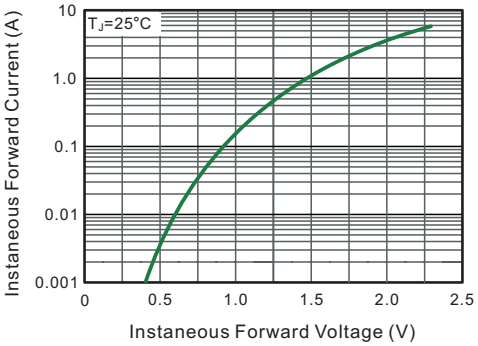


Fig.4 Typical Junction Capacitance

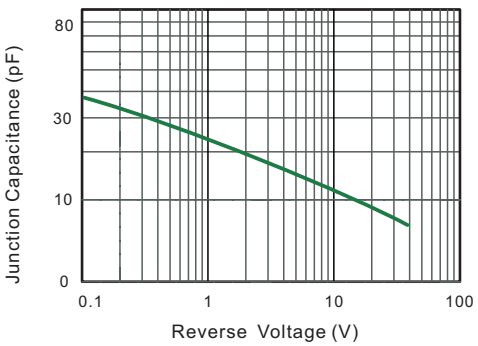


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

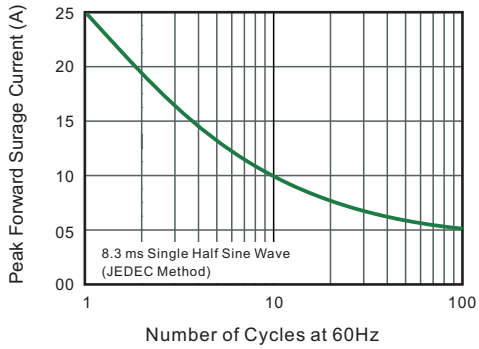
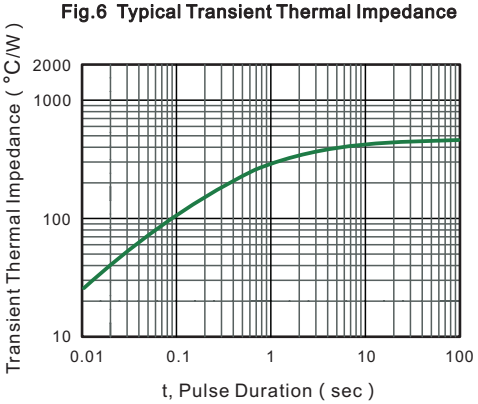


Fig.6 Typical Transient Thermal Impedance

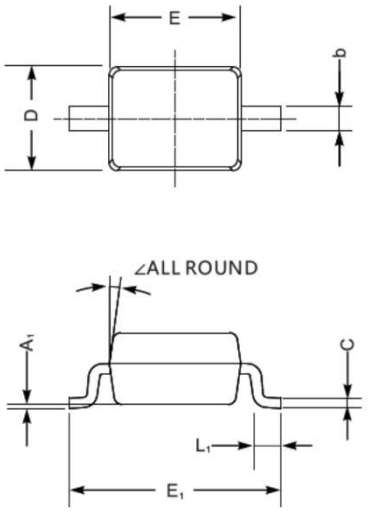


Ordering information

Package	Packing Description	Packing Quantity
SOD-323	Tape/Reel,7"reel	3000PCS/Reel 120000PCS/Carton

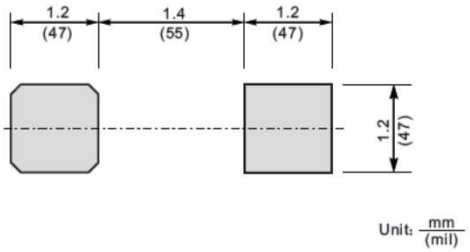
Package Dimensions

SOD-323



Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
C	0.08	0.15	3.1	5.9
D	1.2	1.4	47	55
E	1.4	1.8	63	70
E1	2.55	2.75	100	108
b	0.25	0.4	9.8	16
L1	0.2	0.45	7.9	16
A1	-	0.2	-	8
∠	9°			

The recommended mounting pad size



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