WEITRON

BAS70WS

Surface Mount Schottky Barrier Diode

Lead(Pb)-Free

SCHOTTKY DIODE
70 mAMPERES
70 VOLTS

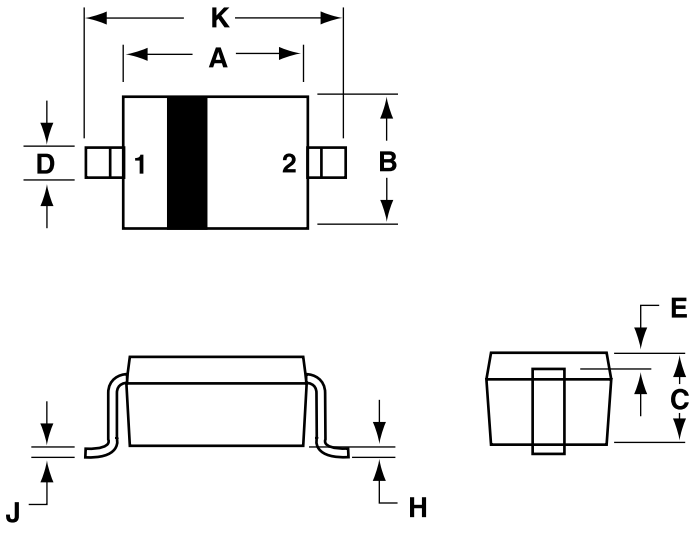
Features:
* LOW Turn-on Voltage
* Fast Switching
* PN Junction Guard for Transient and ESD Protection
* Designed for Surface Mount Application

SOD-323

Mechanical Data:
* Case: SOD-323,
* Plastic Material –UL Recognition Flammability Classification 94V-O
* Leads: Solderable per MIL-STD-202, Method 208
* Polarity: Cathode Band
* Weight: 0.004 grams(approx.)

SOD-323 Outline Demensions

Unit:mm



Dim	MILLMETERS	
	Min	Max
A	1.60	1.80
B	1.15	1.35
C	0.80	1.00
D	0.25	0.40
E	0.15 REF	
H	0.00	0.10
J	0.089	0.377
K	2.30	2.70

PIN 1.CATHODE
2.ANODE

Maximum Ratings (T_A=25˚C Unless otherwise noted)

Characteristic	Symbol	Value	Unit
Peak Repetitive Peak reverse voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	70	V
Forward Continuous Current	I_F	70	mA
Peak forward surge current @<1.0s	I_{FSM}	100	mA
Power Dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	K/W
Junction temperature Range	T_J	150	℃
Storage temperature Range	T_{STG}	-55 to +150	℃

Electrical Characteristics (T_A=25˚C Unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
Forward Voltage I_F=1.0mA I_F=15mA	V_F	 - -	 - -	 0.41 1.0	V
Reverse Current V_R=50V	I_R	-	-	100	nA
Total Capacitance V_R=0V, f=1.0MHz	C_T	-	-	2	pF
Reverse Recovery Time I_F=I_R=10mA, I_{rr}=0.1 x I_R, R_L=100Ω	t_{rr}	-	-	5	ns

Device Marking

Item	Marking	Eqivalent Circuit diagram
BAS70WS	K73	

Electrical Characteristic curves(Ta=25°C)

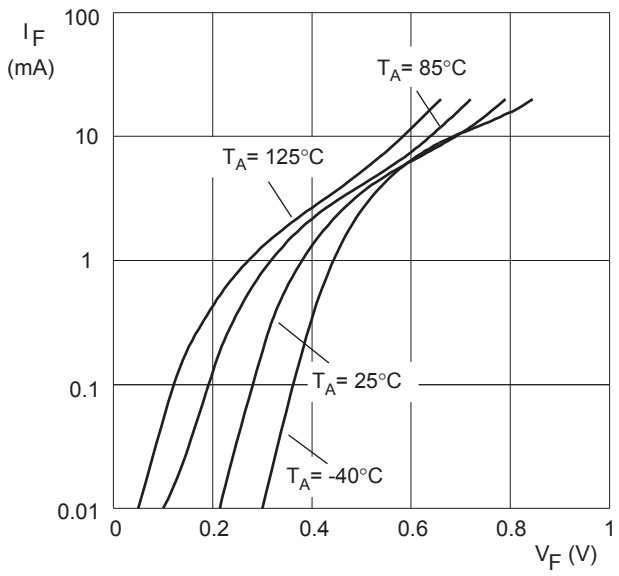


Fig.1 Forward current as a function of forward voltage; typical values.

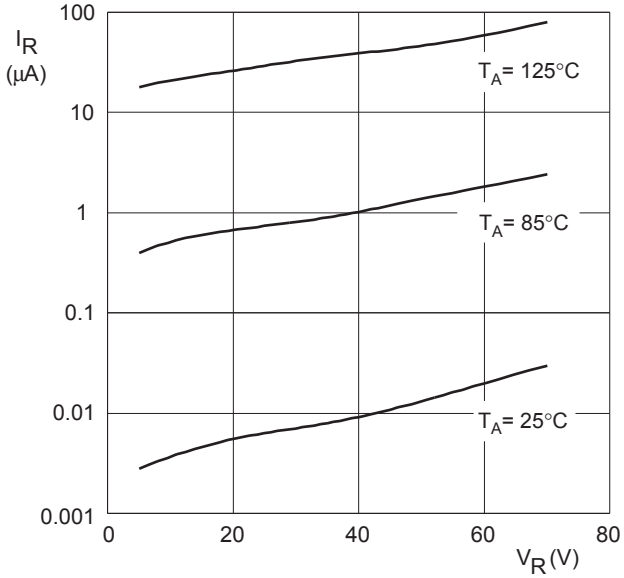


Fig.2 Reverse current as a function of reverse voltage; typical values.

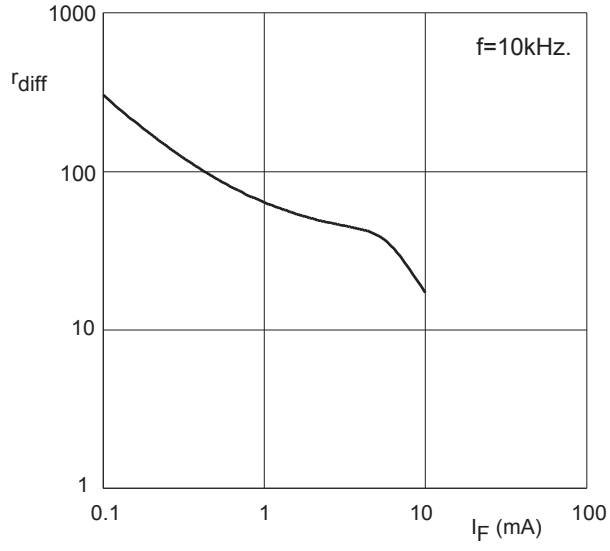


Fig.3 Differential forward resistance as a function

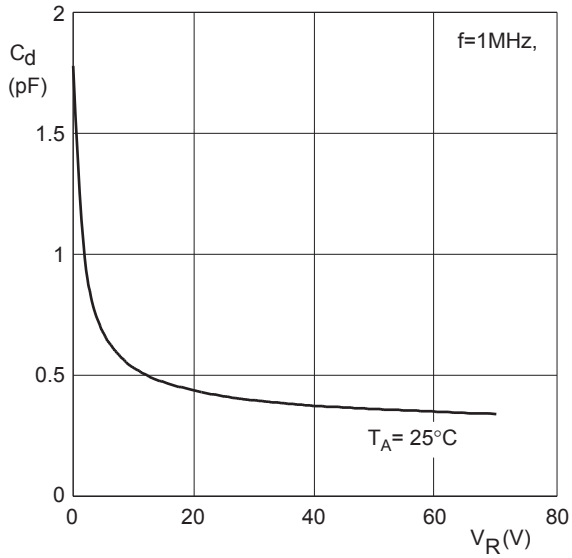


Fig.4 Diode capacitance as a function of reverse