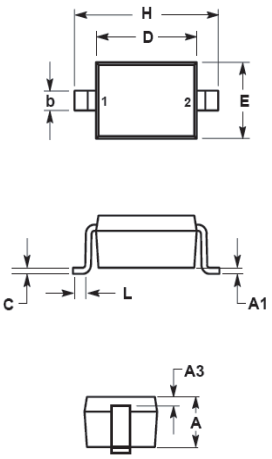
HAICHUANG SEMI

BAS70WS

SCHOTTKY BARRIER DIODE

Features

- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard for Transient and ESD Protection
- Designed for Surface Mount Application
- Marking Code:K73



SOD-323		
Dim.	Min.	Max.
A	0.80	1.10
A1	0.00	0.10
A3	0.15 REF	
B	0.25	0.40
C	0.10	0.15
D	1.60	1.80
E	1.15	1.35
L	0.20	0.50
H	2.30	2.80
Dimensions in millimeter		

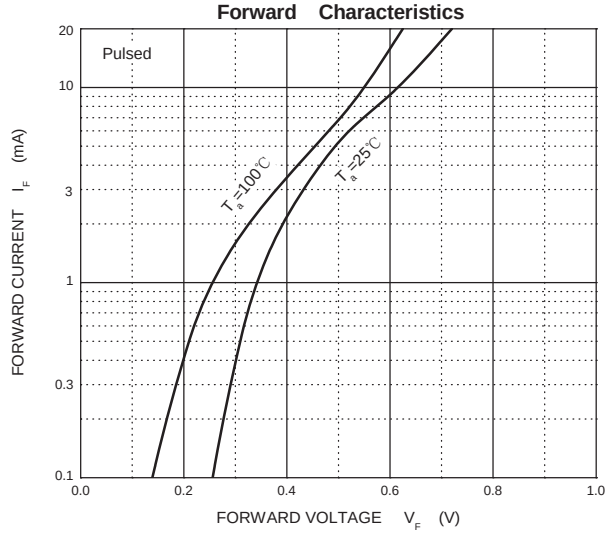
Maximum Ratings @ T_A = 25°C unless otherwise specified

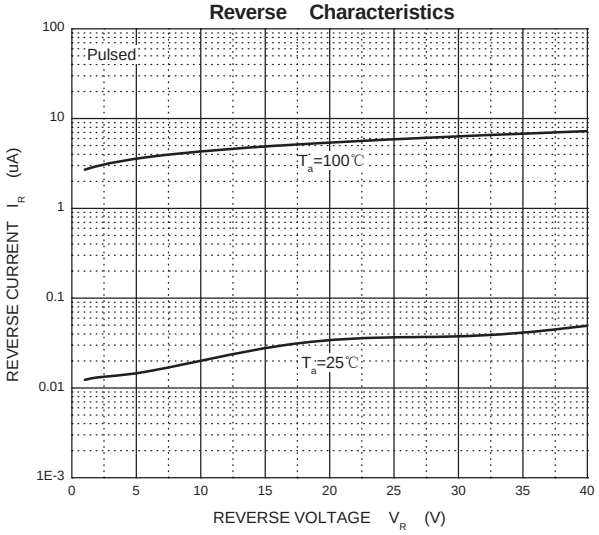
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	70	V
Reverse Voltage	V_R	70	V
Average Rectified Forward Current	$I_{F(AV)}$	70	mA
Non-repetitive Peak Forward Surge Current at t = 8.3 ms	I_{FSM}	100	mA
Power Dissipation	P_D	200	mW
Thermal Resistance from Junction to Ambient Air	$R_{\theta JA}$	500	℃/W
Junction Temperature	T_j	125	℃
Storage Temperature Range	T_{stg}	- 55 to + 150	℃

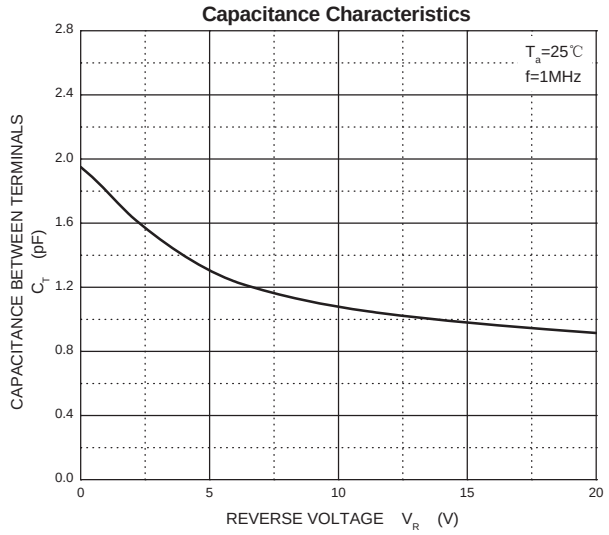
Electrical Characteristics @ T_A = 25°C unless otherwise specified

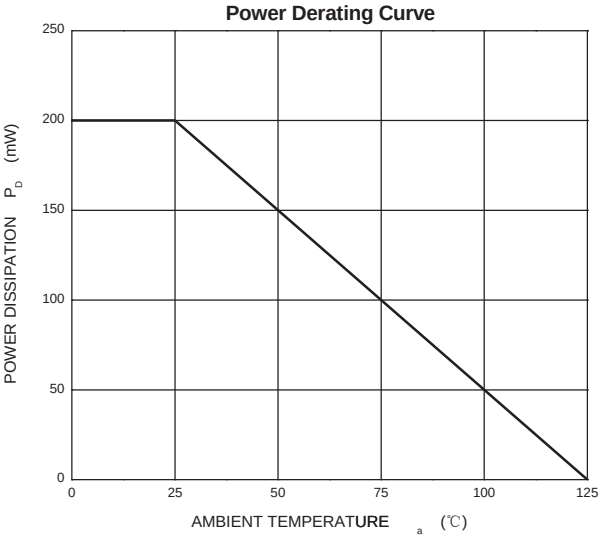
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V_{F1}			0.41	V	$_F$=1mA
	V_{F2}			1	V	$_F$=15mA
Reverse current	I_R			100	nA	$_R$=50V
Capacitance between terminals	C_T			2	pF	V_R=0V,f=1MHz
Reverse recovery time	t_{rr}			5	ns	I_F=I_R=10mA Irr=0.1XI_R,R_L=100Ω

TYPICAL TRANSIENT CHARACTERISTICS









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