

We declare that the material of product compliance with RoHS requirements and Halogen Free
Surface mount package ideally suited for automatic Insertion

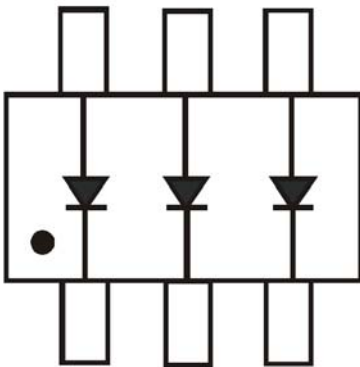
Moisture Sensitivity Level 1
Reverse voltage: 250 V
Average forward current : 200mA

Fast switching
Low leakage current
Low junction capacitance

Package: SOT-363

Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102

Marking: XJK





(Ta=25 Unless otherwise specified)

Repetitive peak reverse voltage	V_{RRM}	V		250
Reverse voltage	V_R	V		250
Average forward current	I_{FAV}	mA		200
Non-repetitive peak forward surge current	I_{FSM}	A	8.3ms half-sine wave	1.7
Power dissipation	P_D	mW		200
Thermal Resistance Junction to Ambient Air	R_{JA}	/W		625
Maximum junction temperature	T_j			-55 ~+150
Storage temperature range	T_{sig}			-55 ~+150

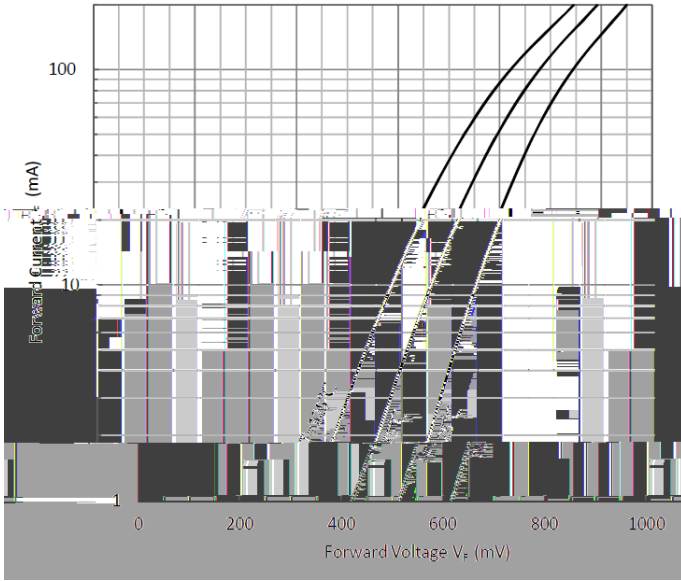
(Ta=25 unless otherwise specified)

Breakdown Voltage	V_R	V	$I_R=100\mu A$	250	
Forward Voltage	V_F	V	$I_F=100mA$		1.05
			$I_F=200mA$		1.25
Reverse Leakage Current	I_R	nA	$V_R=200V$		100
Capacitance	C_j	pF	$V_R=0V, f=1MHz$		5
Reverse Recovery Time	T_{RR}	ns	$I_F=I_R=30mA, I_{rr}=1mA$		50

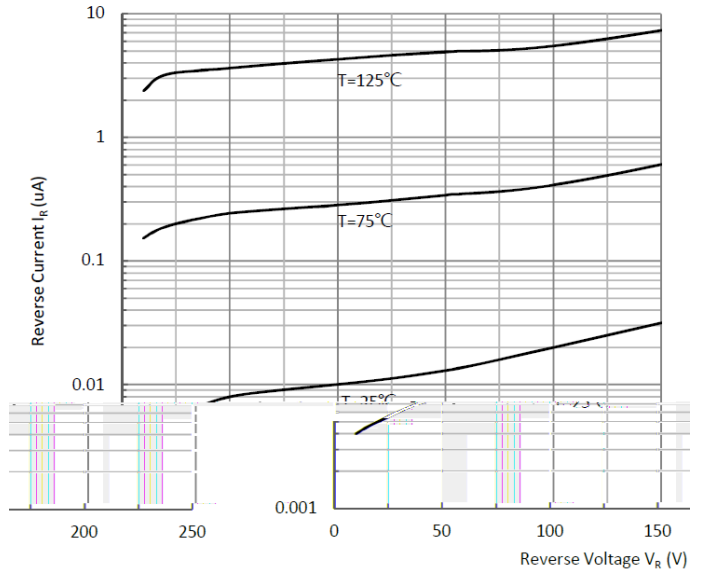


(Typical)

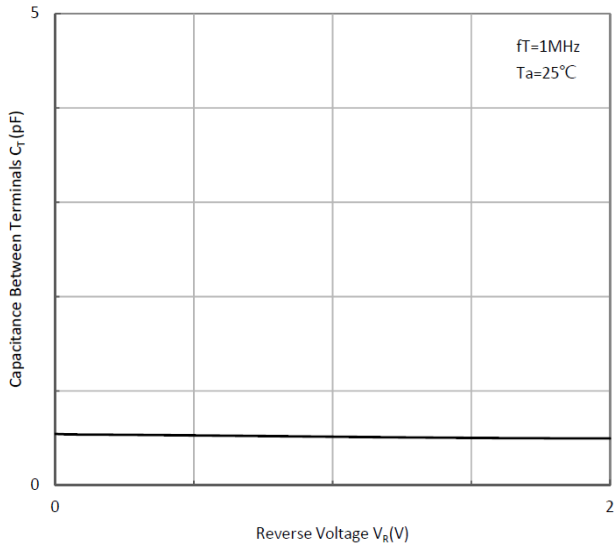
Forward Characteristics



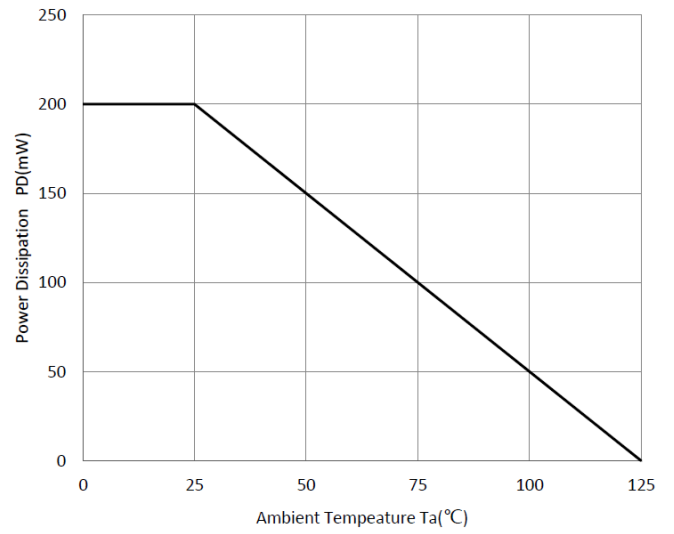
Reverse Characteristics



Capacitance Characteristics



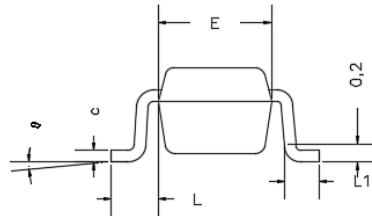
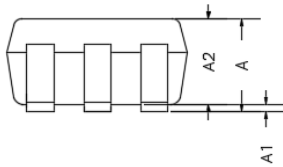
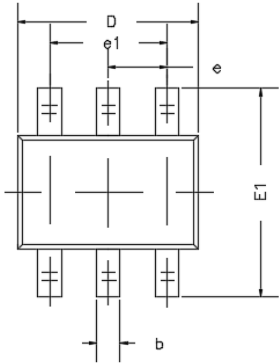
Power Derating Curve



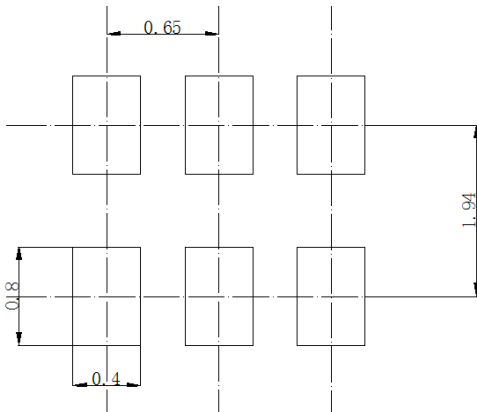


(Example)

BAS21TW	F2	Approximate 0.009g	3000	30000	120000	7" reel
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DIM	DIMENSIONS			
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.035	0.043	0.900	1.100
A1	0.000	0.004	0.000	0.100
A2	0.035	0.039	0.900	1.000
b	0.006	0.014	0.150	0.350
c	0.002	0.010	0.050	0.250
D	0.071	0.087	1.800	2.200
E	0.045	0.053	1.150	1.350
E1	0.085	0.096	2.150	2.450
e	0.026TYP		0.65TYP	
e1	0.047	0.055	1.200	1.400
L	0.021TYP		0.525TYP	
L1	0.010	0.018	0.260	0.460
θ	0°	8°	0°	8°



Unit: mm



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