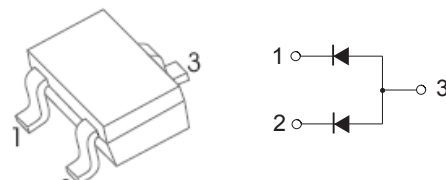
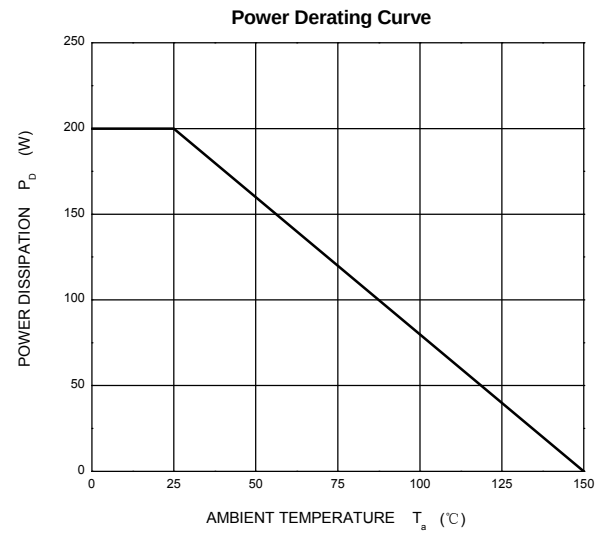
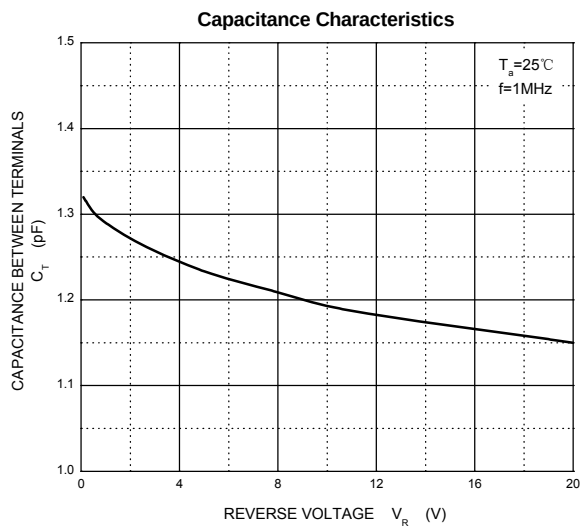
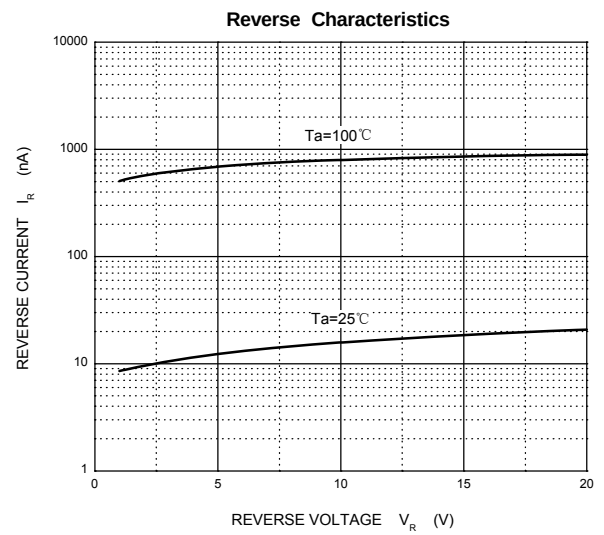
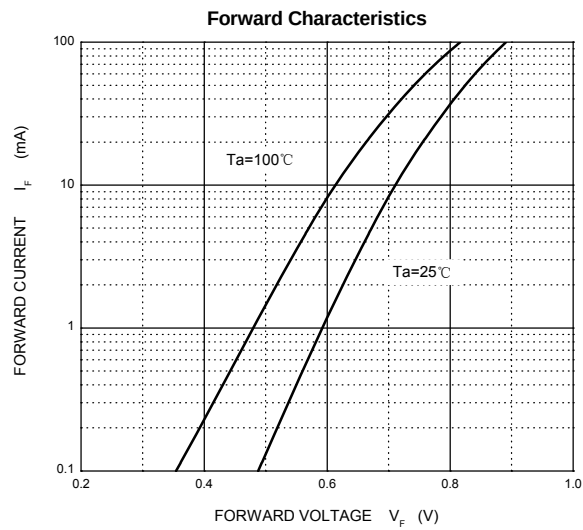
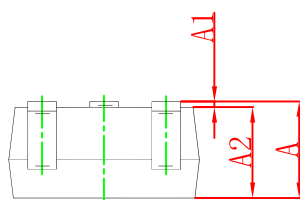
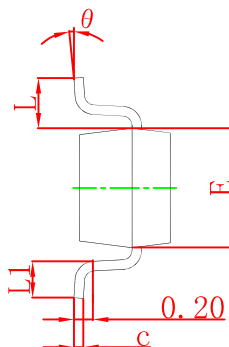
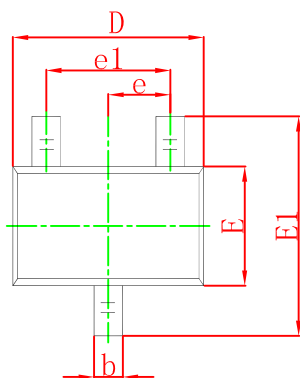


SWITCHING DIODE		SOT-323 Plastic-Encapsulate Diodes				
SOT-323  Marking :KJC		Features - Fast Switching Speed - For General Purpose Switching Applications - High Conductance				
Maximum Ratings @Ta=25°C						
Parameter	Symbol	Limit	Unit			
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V			
Peak Repetitive Peak Reverse Voltage	V_{RRM}	75	V			
Working Peak Reverse Voltage	V_{RWM}					
DC Blocking Voltage	V_R					
RMS Reverse Voltage	$V_{R(RMS)}$	53	V			
Forward Continuous Current	I_{FM}	300	mA			
Average Rectified Output Current	I_O	150	mA			
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	2.0	A			
Power Dissipation	P_D	200	mW			
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	°C/W			
Operation Junction and Storage Temperature Range	T_J, T_{STG}	-55~+150	°C			
Electrical Ratings @Ta=25°C						
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	$V_{(BR)}$	75			V	$I_R=2.5\mu A$
Forward voltage	V_{F1}			0.715	V	$I_F=1mA$
	V_{F2}			0.855	V	$I_F=10mA$
	V_{F3}			1.0	V	$I_F=50mA$
	V_{F4}			1.25	V	$I_F=150mA$
Reverse current	I_{R1}			2.5	μA	$V_R=75V$
	I_{R2}			25	nA	$V_R=20V$
Capacitance between terminals	C_T			2	pF	$V_R=0V, f=1MHz$
Reverse recovery time	t_{rr}			4	ns	$I_F=I_R=10mA$ $I_{rr}=0.1I_R, R_L=100\Omega$

Typical Characteristics

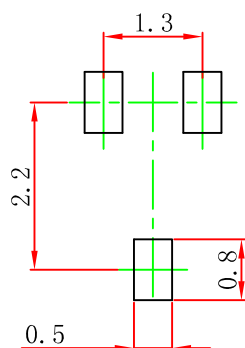


SOT-323 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.200	0.400	0.008	0.016
c	0.080	0.150	0.003	0.006
D	2.000	2.200	0.079	0.087
E	1.150	1.350	0.045	0.053
E1	2.150	2.450	0.085	0.096
e	0.650 TYP		0.026 TYP	
e1	1.200	1.400	0.047	0.055
L	0.525 REF		0.021 REF	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°

SOT-323 Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.