



Dual Switching Diode

Features

- Epoxy meets UL-94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Fast switching speed
- High Conductance
- Surface mount package ideally Suited for Automatic Insertion

Mechanical Data

- **Package:** SOT-23
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** M5C

■Maximum Ratings (Ta=25 - Unless otherwise specified)

Item	Symbol	Unit	Value
Peak Reverse Voltage	V_{RRM}	V	100

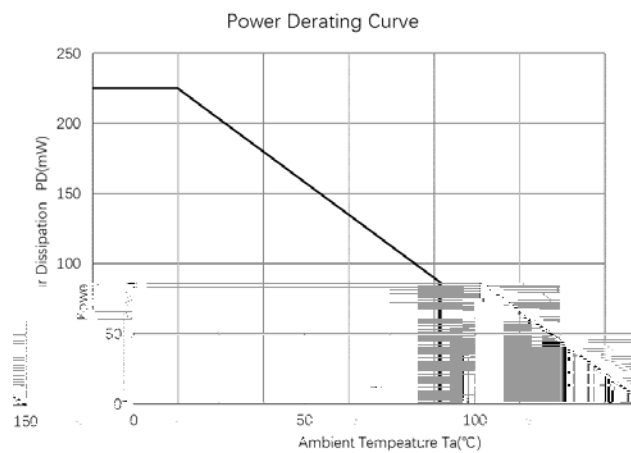
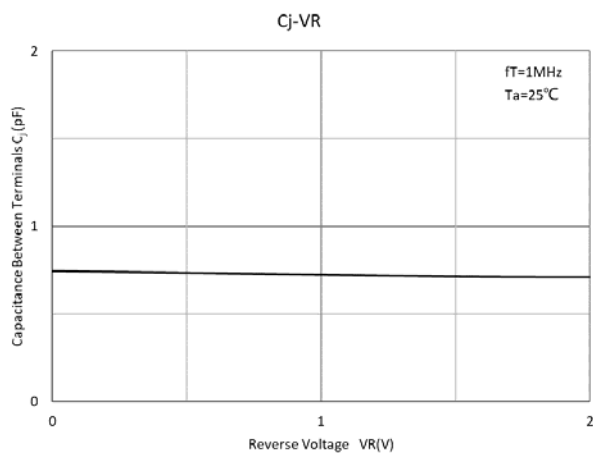
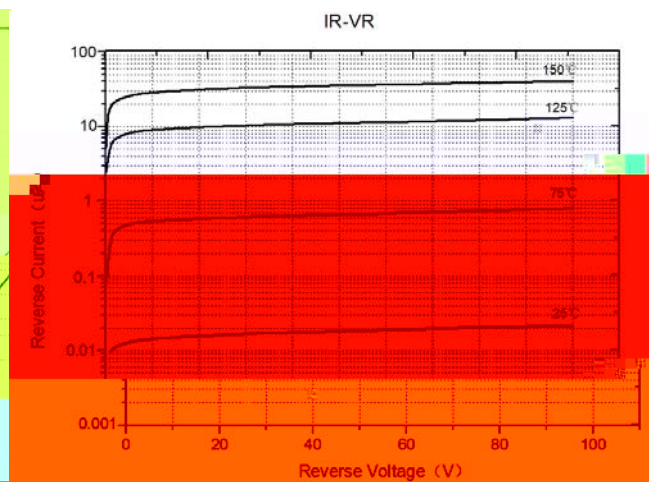
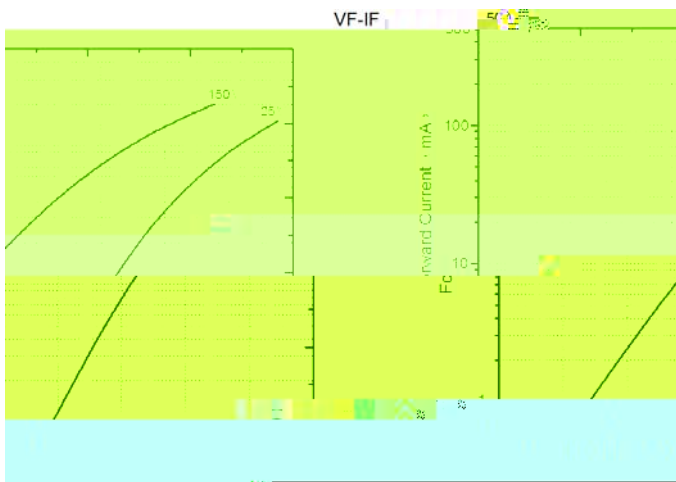


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■ Electrical Characteristics Ta=25 - Unless otherwise specified, Per Leg

Item	Symbol	Unit	Conditions	Min	Max
Reverse Voltage	V_R	V	$I_R=100\mu A$	100	
Forward Voltage	V_F	V	$I_F=1mA$	0.55	0.7
			$I_F=10mA$	0.67	0.82
			$I_F=100mA$	0.75	1.1
Reverse Current	I_R	μA	$V_R=50V$		1
			$V_R=100V$		3
Typical Junction Capacitance	C_J	pF	$f=1.0MHz, V_R=0V$		2
Reverse Recovery Time	T_{rr}	ns	$I_F=10mA, V_R=6V, R_L=100\Omega, I_{rr}=1mA$		4

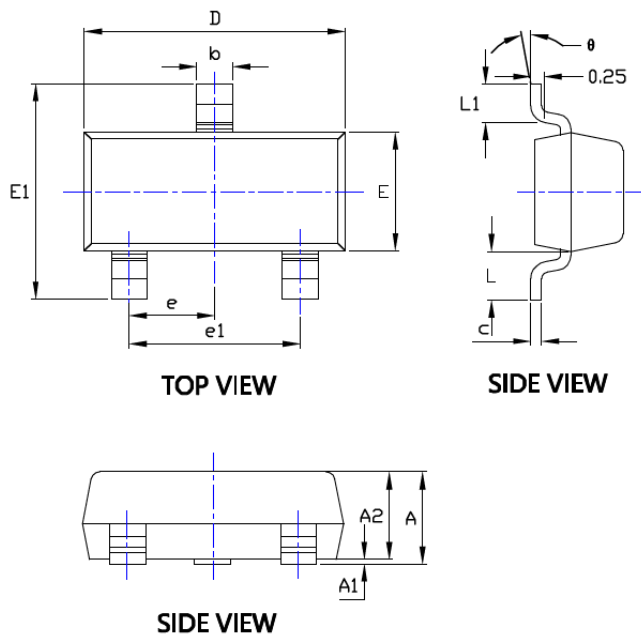
■ Typical Characteristics (Per Leg)





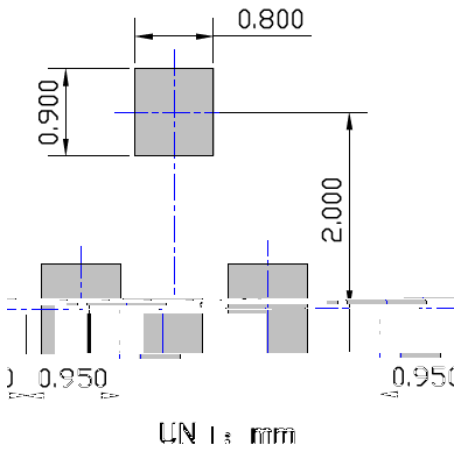
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■SOT-23 Package Outline Dimensions



SYMBOL	DIMENSIONS			
	INCHES		Millimeter	
	MTN	MAY	MTN	MAY
D	0.025	0.030	0.64	0.76
b	0.014	0.020	0.35	0.51
E1	0.011	0.020	0.28	0.51
E	0.020	0.030	0.51	0.76
e	0.008	0.010	0.20	0.25
e1	0.008	0.010	0.20	0.25
L1	0.005	0.008	0.13	0.20
L	0.010	0.015	0.25	0.38
c	0.005	0.008	0.13	0.20
A1	0.010	0.015	0.25	0.38
A2	0.010	0.015	0.25	0.38
A	0.010	0.015	0.25	0.38
TYP				
e	0.0075	0.010	0.19	0.25
e1	0.0075	0.010	0.19	0.25
L1	0.005	0.008	0.13	0.20
L	0.010	0.015	0.25	0.38
c	0.005	0.008	0.13	0.20
A1	0.010	0.015	0.25	0.38
A2	0.010	0.015	0.25	0.38
A	0.010	0.015	0.25	0.38

■SOT-23 Suggested Pad Layout





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