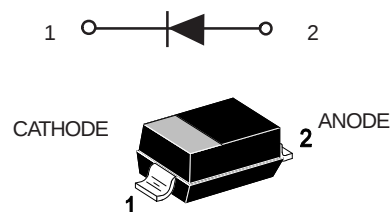


HIGH VOLTAGE SWITCHING DIODE

1. FEATURES

We declare that the material of product compliance with RoHS requirements and Halogen Free.



SOD-123

2. DEVICE MARKING AND ORDERING INFORMATION

Marking: T3

3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Continuous Reverse Voltage	VR	250	V
Peak Forward Current	IF	200	mA
Peak Forward Surge Current	IFM(surge)	625	mA
Non-Repetitive Peak Forward Current tp=10ms	IFSM	3.5	A

4. THERMAL CHARACTERISTICS

Parameter	Symbol	Limits	Unit
Total Device Dissipation FR-5 Board, (Note 1) TA = 25°C	PD	250	mW
Derate above 25°C		2	mW/°C
Thermal resistance from junction to ambient	RθJA	500	°C/W
Junction and Storage Temperature	TJ , Tstg	-55~+150	°C

1.FR-5 Minimum Pad

HIGH VOLTAGE SWITCHING DIODE

5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Reverse Voltage Leakage Current (VR=200V)	IR	-	-	0.1	μA
(VR=200V, Tj=150°C)		-	-	100	
Reverse Breakdown Voltage (IBR=100μA)	VBR	250	-	-	V
Forward Voltage (IF=100mA)	VF	-	-	1.0	V
(IF=200mA)		-	-	1.25	
Diode Capacitance (VR =0V, f=1.0MHz)	CD	-	-	5	pF
Reverse Recovery Time (IF =IR =30mA, RL =100Ω)	trr	-	-	50	ns

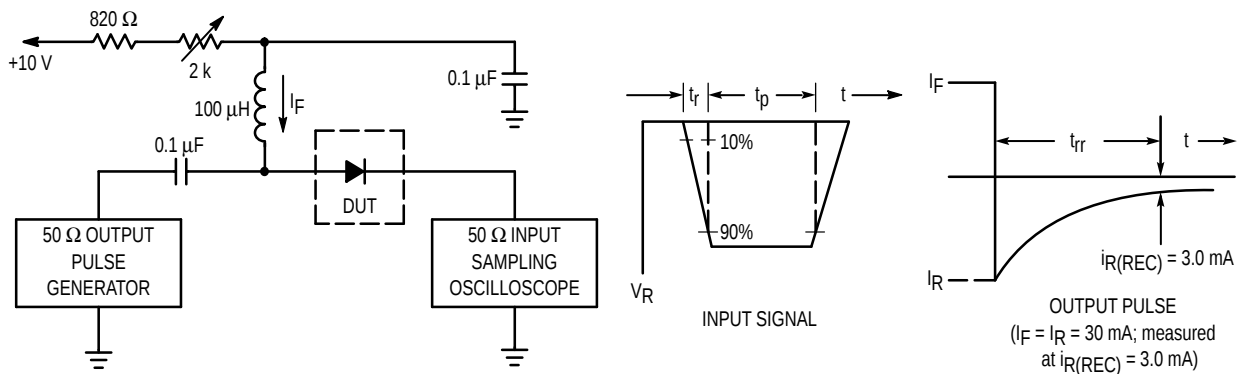
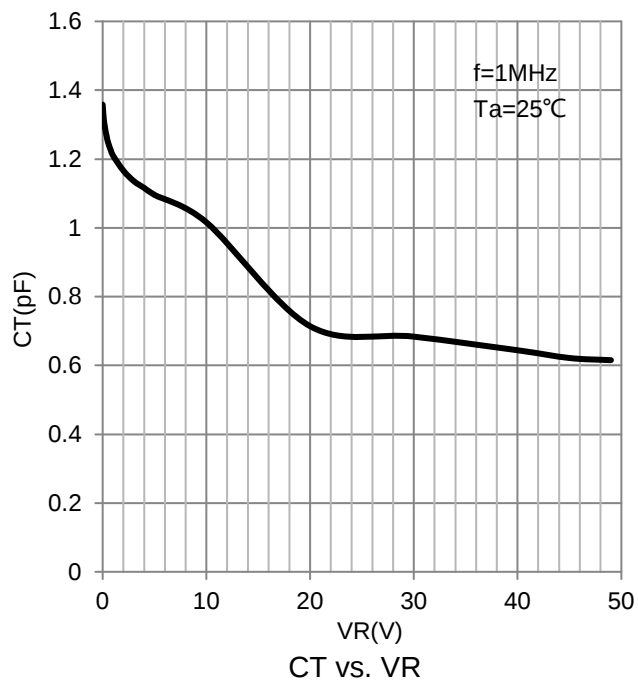
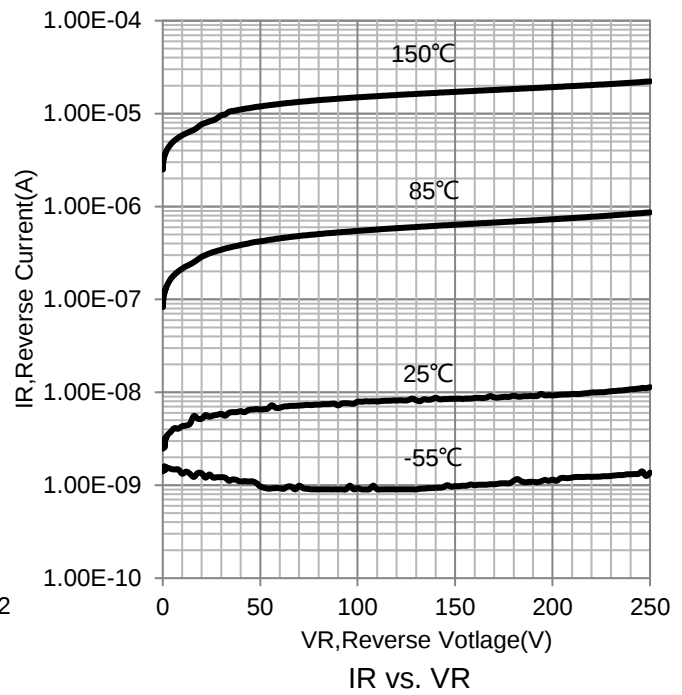
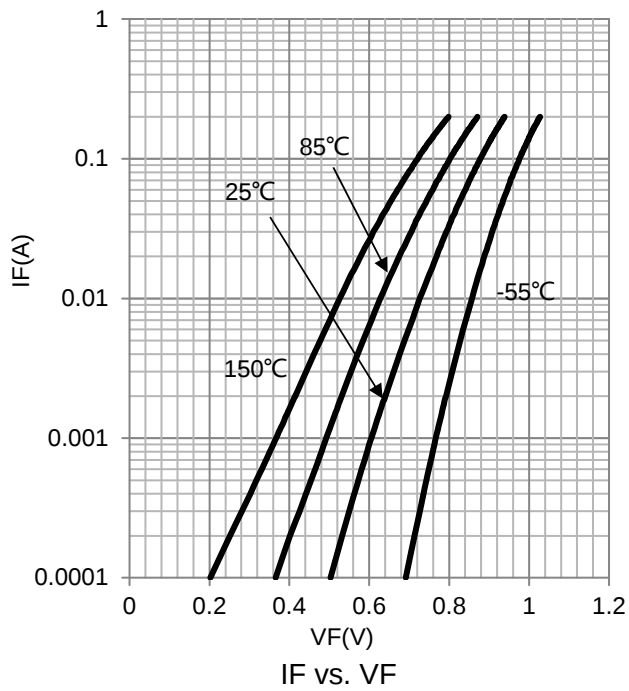


Figure 1. Recovery Time Equivalent Test Circuit

HIGH VOLTAGE SWITCHING DIODE

6.ELECTRICAL CHARACTERISTICS CURVES

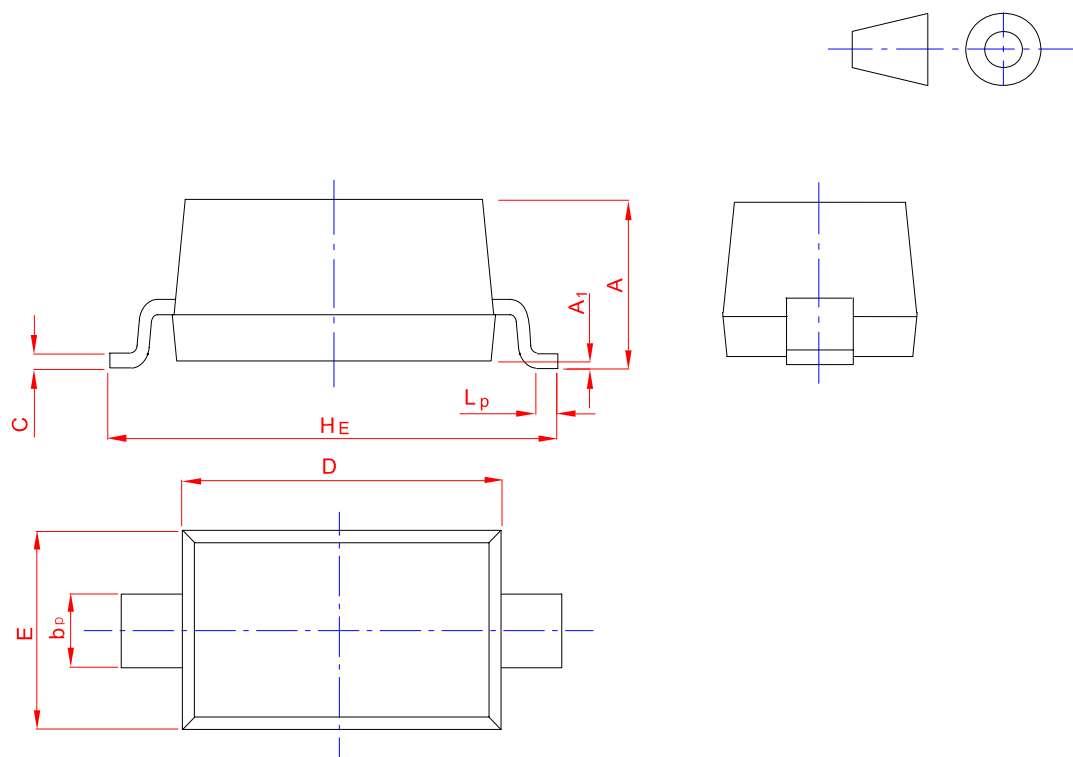


HIGH VOLTAGE SWITCHING DIODE

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

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UNIT	A	bp	C	D	E	HE	A1	Lp
mm	1.20 0.90	0.60 0.50	0.135 0.100	2.75 2.55	1.65 1.55	3.85 3.55	0.10 0.01	0.50 0.20

Pad Layout Unit: inch(mm)

