

Small Signal Product

300mW, Hermetically Sealed Glass Switching Diodes

FEATURES

- Fast switching device ($t_{rr} < 4.0 \text{ ns}$)
- Through-hole mount device type
- DO-34 package (JEDEC DO-204)
- Hermetically sealed glass
- Compression bonded construction
- All external surfaces are corrosion resistant and leads are readily solderable
- RoHS compliant
- Solder hot dip Tin (Sn) lead finish
- Cathode indicated by polarity band
- Marking code: 133



DO-34



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Power Dissipation	P _D	300	mW
Working Inverse Voltage	W _{IV}	90	V
Average Rectified Current	I _O	150	mA
Non-Repetitive Peak Forward Current	I _{FM}	450	mA
Peak Forward Surge Current	I _{FSURGE}	2	A
Operating Junction Temperature	T _J	+ 175	°C
Storage Temperature Range	T _{STG}	-65 to +200	°C

PARAMETER		SYMBOL	MIN	MAX	UNIT
Breakdown Voltage	I _R =500nA	B _V	80	--	V
Forward Voltage	I _F =100mA	V _F		1.2	V
Reverse Leakage Current	V _R =80V	I _R		500	nA
Junction Capacitance	V _R =0, f=1.0MHz	C _j	--	4.0	pF
Reverse Recovery Time	(Note 1)	t _{rr}	--	4.0	ns

Notes: 1. Reverse Recovery Test Conditions: I_F=I_R=10mA, R_L=100Ω, I_{RR}=1mA

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RATINGS AND CHARACTERISTICS CURVES

($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig. 1 Forward Characteristics

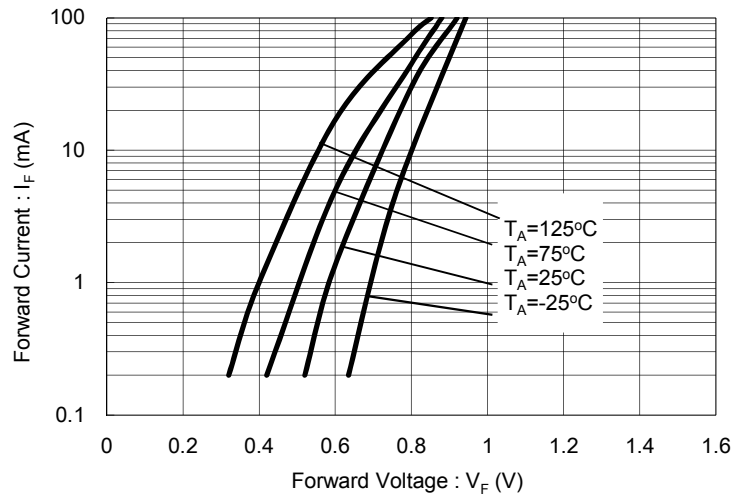


Fig. 2 Reverse Characteristics

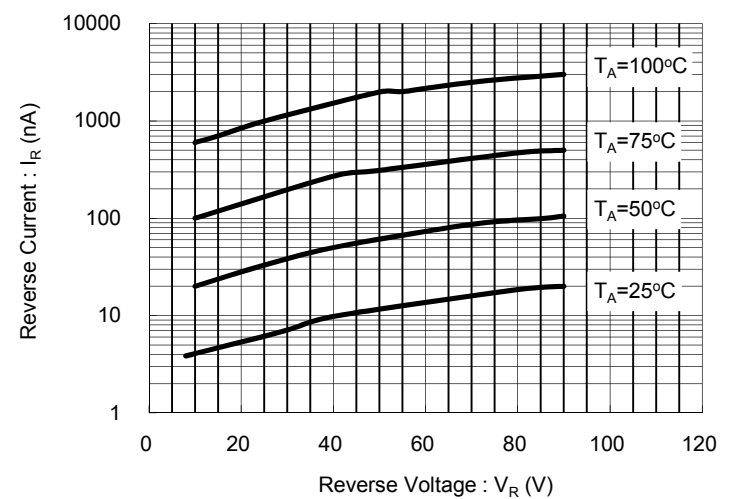


Fig. 3 Capacitance Between Terminals Characteristics

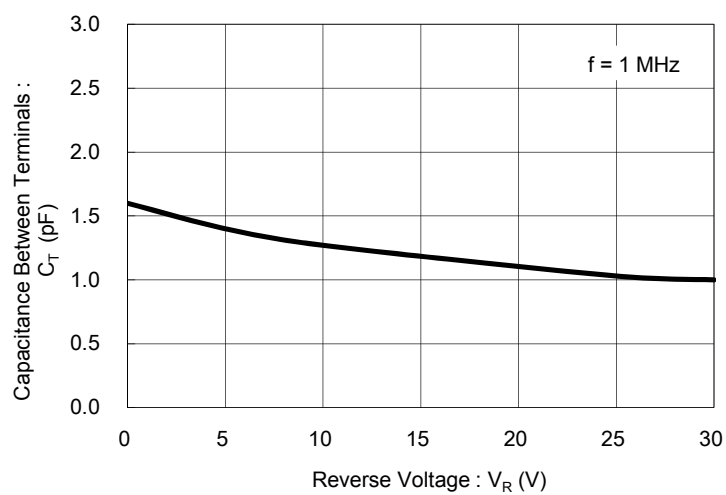


Fig. 4 Reverse Recovery Time Characteristics

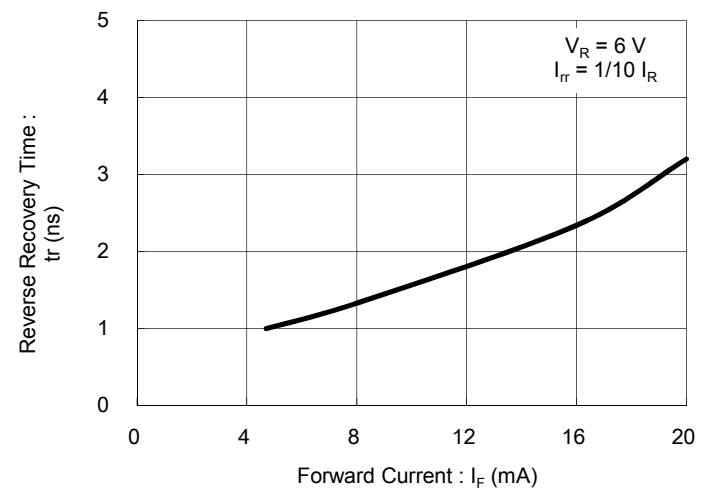


Fig. 5 Surge Current Characteristics

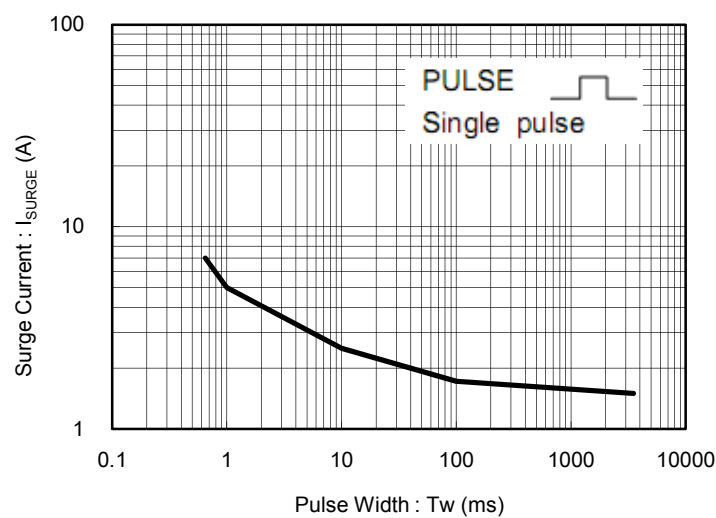
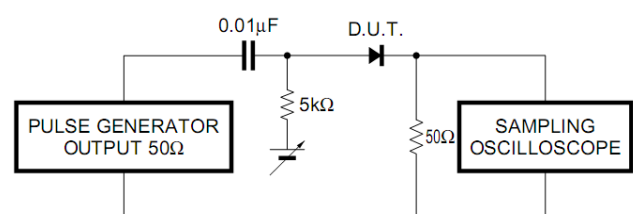


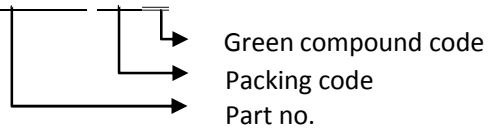
Fig. 6 Reverse Recovery Time (t_{rr}) Measurement Circuit



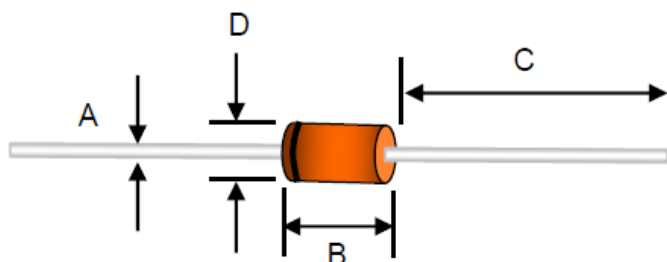
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ORDER INFORMATION (EXAMPLE)

1SS133M R0G



PACKAGE OUTLINE DIMENSIONS



DIM.	Unit(mm)		Unit(inch)	
	Min	Max	Min	Max
A	0.30	0.55	0.012	0.022
B	2.16	3.04	0.085	0.120
C	25.40	38.10	1.000	1.500
D	1.27	2.00	0.050	0.079

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