

Small Signal Product

300mW, Hermetically Sealed Glass Switching Diodes

FEATURES

- Fast switching device ($t_{rr} < 4.0$ 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



DO-34



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ 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	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-65 to +200	$^{\circ}\text{C}$

PARAMETER	SYMBOL	MIN	MAX	UNIT
Breakdown Voltage	B_V	80	--	V
Forward Voltage	V_F		1.2	V
Reverse Leakage Current	I_R		500	nA
Junction Capacitance	C_j	--	4.0	pF
Reverse Recovery Time	t_{rr}	--	4.0	ns

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

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RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

Fig. 1 Forward Characteristics

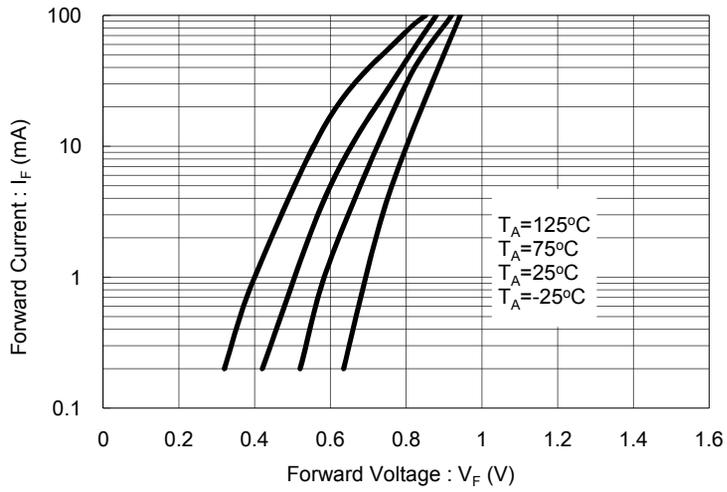


Fig. 2 Reverse Characteristics

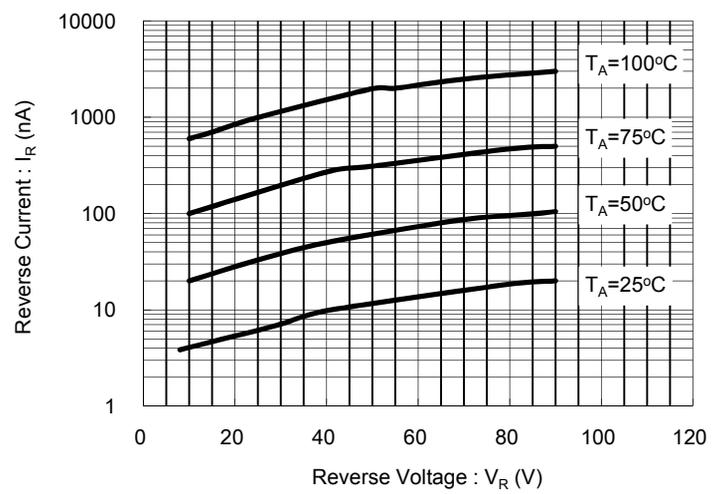


Fig. 3 Capacitance Between Terminals Characteristics

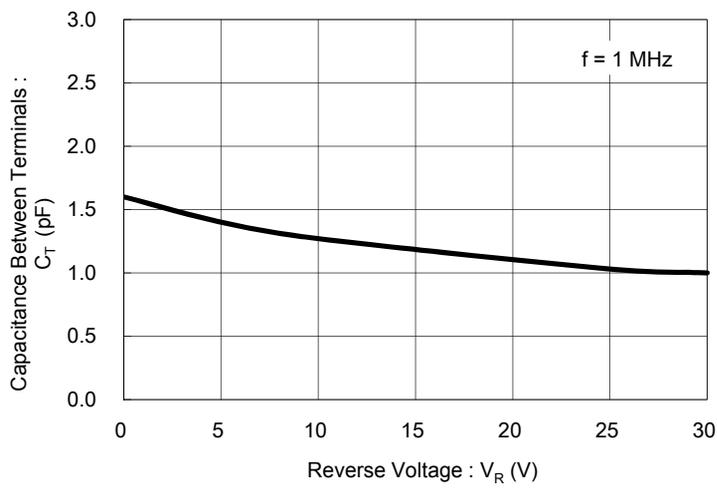


Fig. 4 Reverse Recovery Time Characteristics

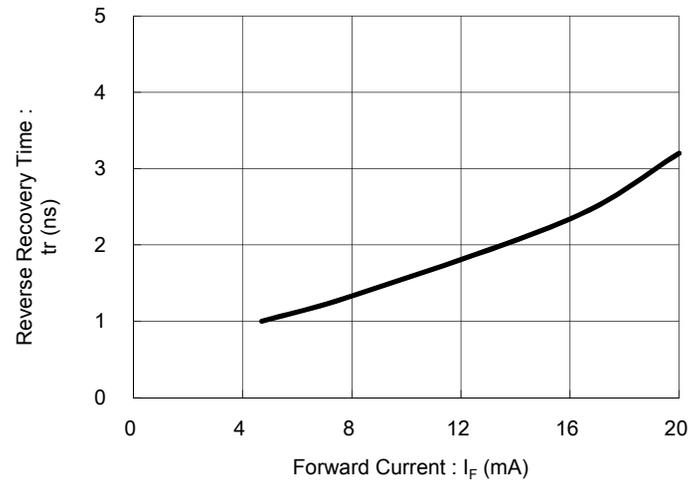
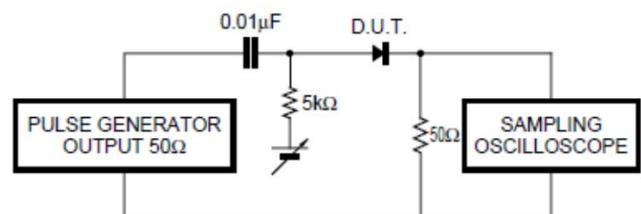
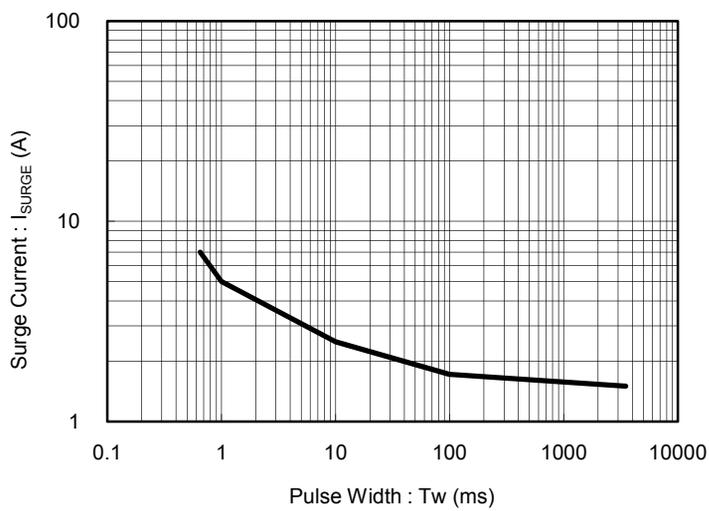


Fig. 5 Surge Current Characteristics



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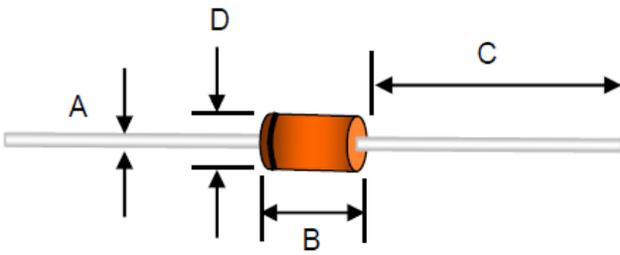
ORDERING INFORMATION					
PART NO.	MANUFACTURE CODE	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING
1SS133M	(Note)	R0	G	DO-34	10K / 14" Reel
1SS133M		A0	G	DO-34	5K / Box (Ammo)
1SS133M		A2	G	DO-34	5K / Box (Ammo)

Note: Manufacture special control, if empty means no special control requirement.

EXAMPLE					
PREFERRED P/N	PART NO.	MANUFACTURE CODE	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
1SS133M R0G	1SS133M		R0	G	Green compound
1SS133M-L0 R0G	1SS133M	L0	R0	G	Green compound

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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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