

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
- Marking code: 133



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

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

Fig. 1 Forward Characteristics

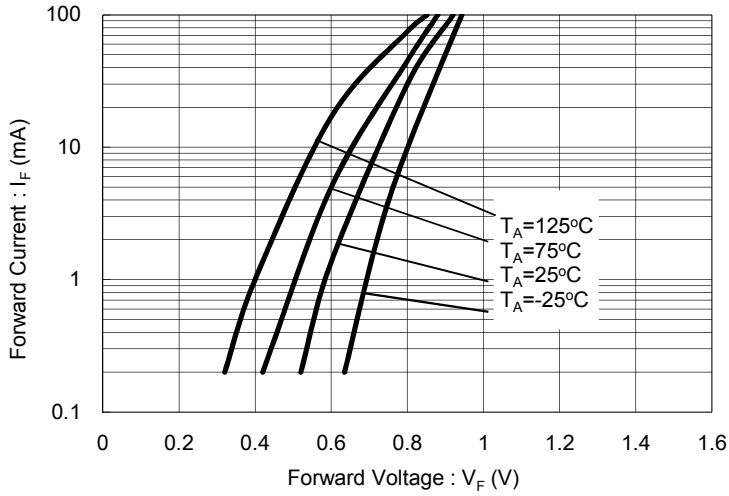


Fig. 2 Reverse Characteristics

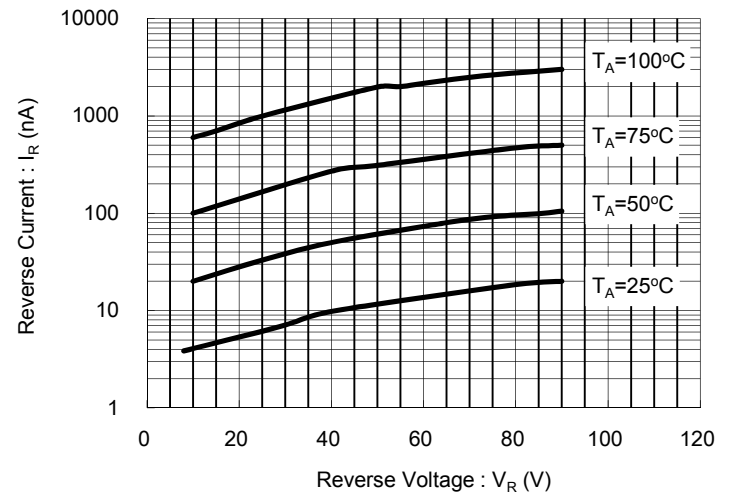


Fig. 3 Capacitance Between Terminals Characteristics

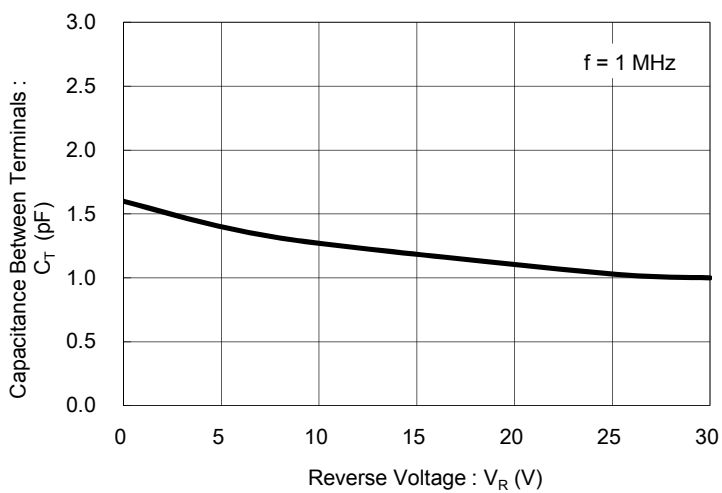


Fig. 4 Reverse Recovery Time Characteristics

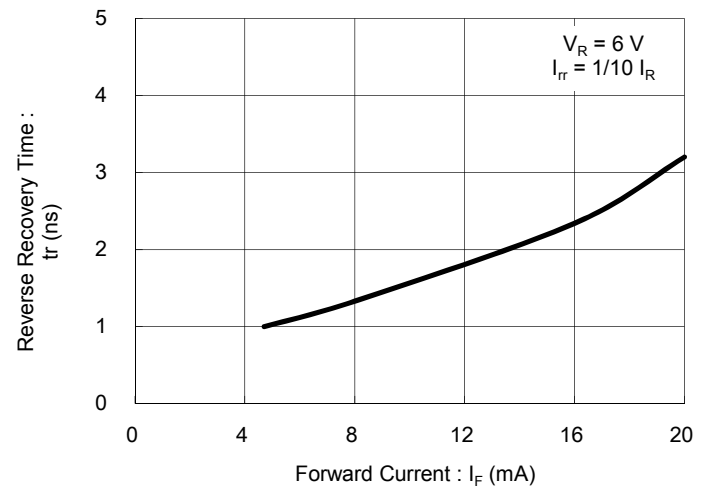


Fig. 5 Surge Current Characteristics

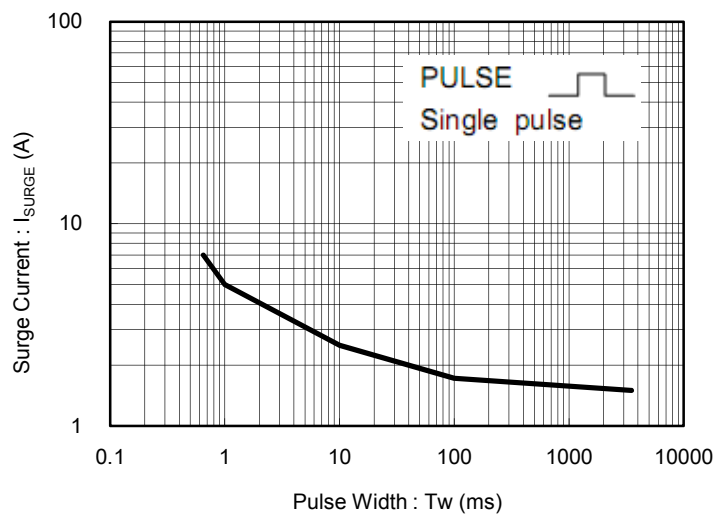
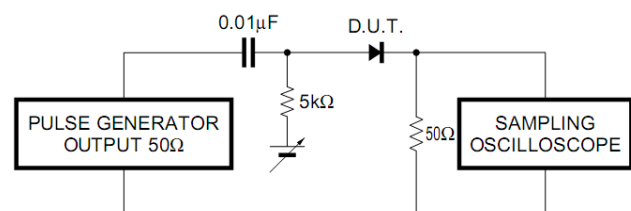


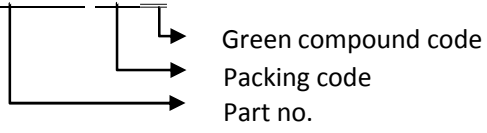
Fig. 6 Reverse Recovery Time ( $t_r$ ) Measurement Circuit



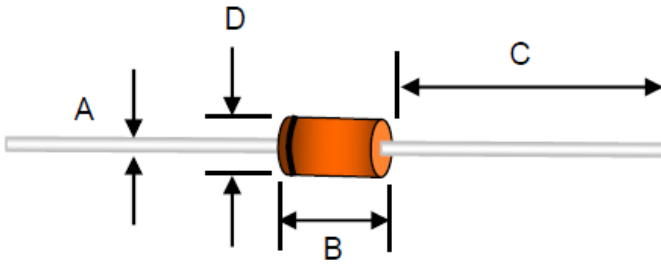
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ORDER INFORMATION (EXAMPLE)

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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