

## SMALL SIGNAL SWITCHING DIODE

REVERSE VOLTAGE : 35 V  
CURRENT: 110 mA

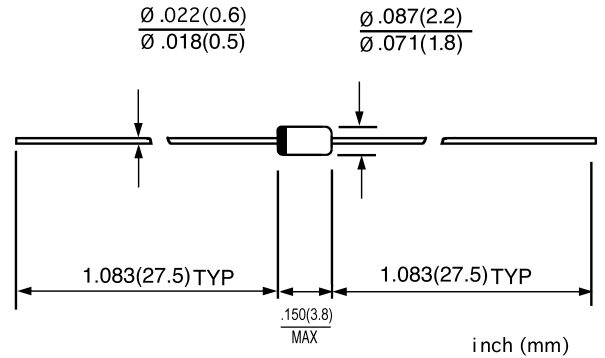
### FEATURES

- ◇ Glass sealed envelope. (MSD)
- ◇ High reliability

### MECHANICAL DATA

- ◇ Case: DO-35, glass case
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.005 ounces, 0.14 grams

### DO - 35(GLASS)



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

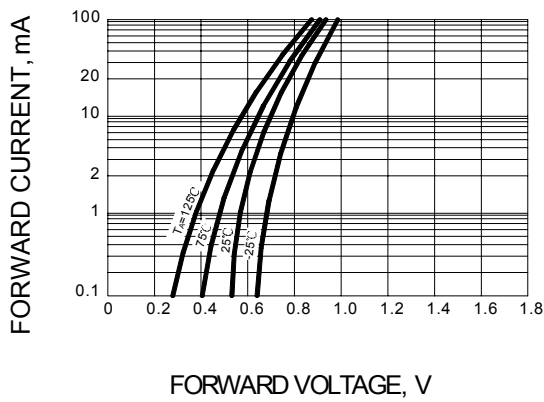
Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

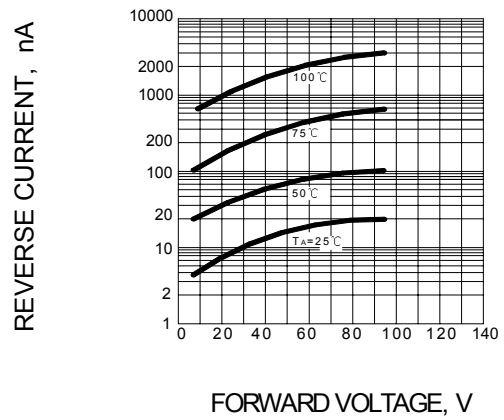
		1SS133	UNITS
Maximum DC reverse voltage	$V_R$	35	V
Maximum recurrent reverse voltage	$V_{RM}$	40	V
Power dissipation	$P_{tot}$	300	mW
Maximum average forward rectified current	$I_{F(AV)}$	110	mA
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	$I_{FSM}$	400	mA
Maximum instantaneous forward voltage @ 100mA	$V_F$	1.2	V
Maximum reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=150^\circ\text{C}$	$I_R$	0.5 50.0	$\mu\text{A}$
Reverse recovery time @ $I_F=10\text{mA}, V_R=6\text{V}, R_L=50$	$t_{rr}$	4.0	ns
Operating junction temperature range	$T_J$	- 55 ---- + 175	$^\circ\text{C}$
Storage temperature range	$T_{STG}$	- 55 ---- + 175	$^\circ\text{C}$

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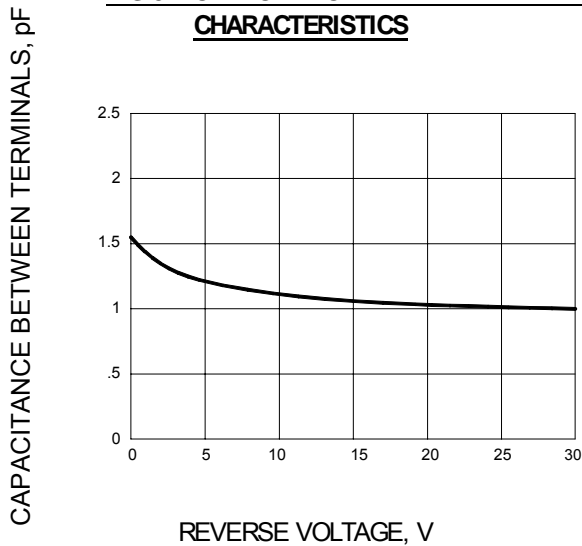
**FIG.1 – FORWARD CHARACTERISTICS**



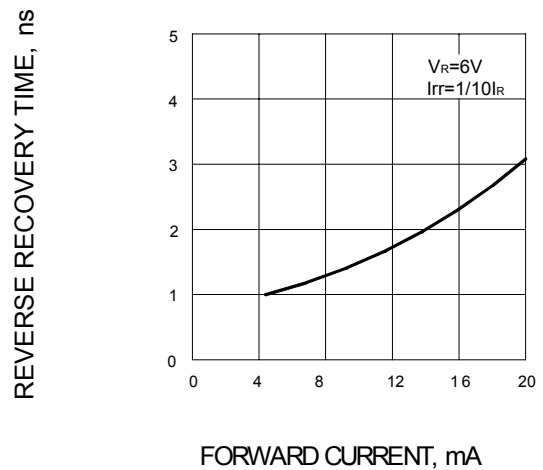
**FIG.2 – REVERSE CHARACTERISTICS**



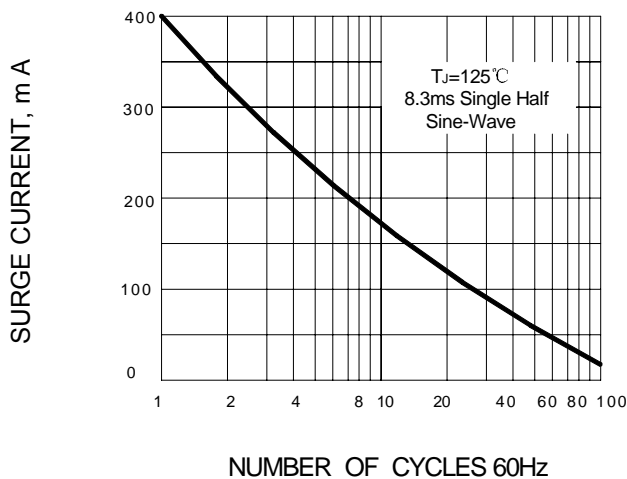
**FIG.3 – CAPACITANCE BETWEEN TERMINALS CHARACTERISTICS**



**FIG.4 – REVERSE RECOVERY TIME CHARACTERISTICS**



**FIG.5 – SURGE CURRENT CHARACTERISTICS**



**FIG.6 – REVERSE RECOVERY TIME ( $t_{rr}$ ) MEASUREMENT CIRCUIT**

