SMALL SIGNAL SWITCHING DIODE

REVERSE VOLTAGE : 90 V
CURRENT: 130 mA

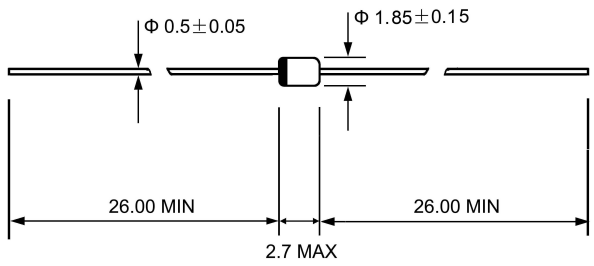
FEATURES

- ◇ Glass sealed envelope. (MSD)
- ◇ V_{RM}=250V guaranteed
- ◇ High reliability
- ◇ These diodes are also available in glass case DO-35.

MECHANICAL DATA

- ◇ Case: DO-34, glass case
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.003 ounces, 0.093 grams

DO - 34(GLASS)



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ 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	80	V
Maximum recurrent reverse voltage	V_{RM}	90	V
Power dissipation	P_{tot}	300	mW
Maximum average forward rectified current	$I_{F(AV)}$	130	mA
Peak forward surge current 10ms single half-sine-wave superimposed on rated load t<1s	I_{FSM}	600	mA
Maximum instantaneous forward voltage @ 100mA	V_F	1.2	V
Maximum reverse current @T_A=25℃	I_R	0.5	μA
at rated DC blocking voltage @T_A=150℃		50.0	
Reverse recovery time @I_F=10mA,V_R=6V,R_L=50Ω	t_{rr}	4	ns
Operating junction temperature range	T_J	- 55 ---- + 175	℃
Storage temperature range	T_{STG}	- 55 ---- + 175	℃

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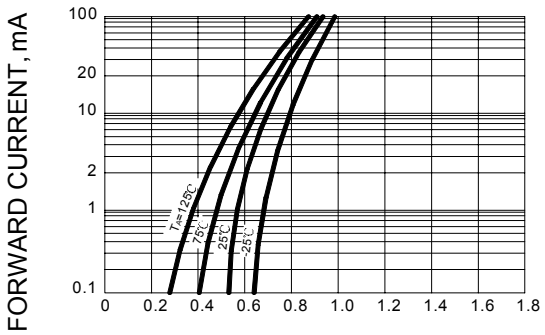
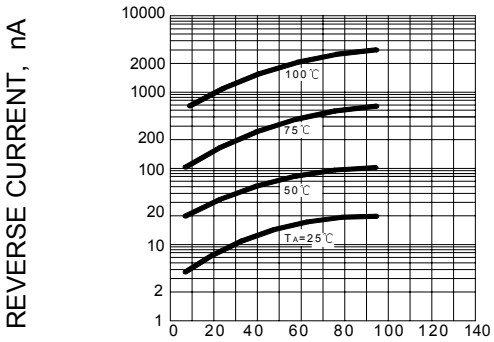
FIG.1 --FORWARD CHARACTERISTICS



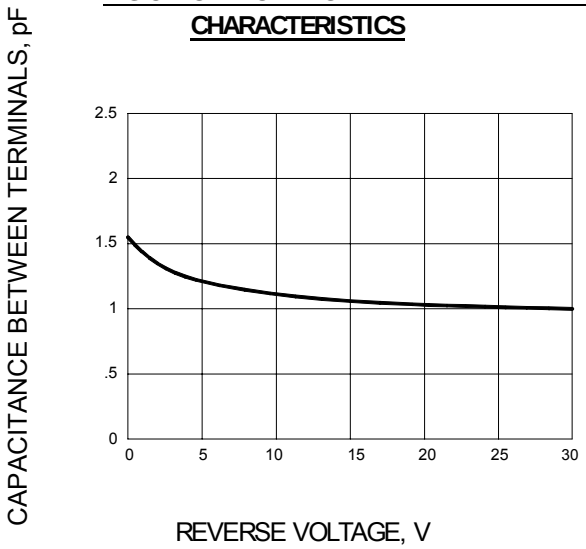
FORWARD VOLTAGE, V

FIG.2 -- REVERSE CHARACTERISTICS



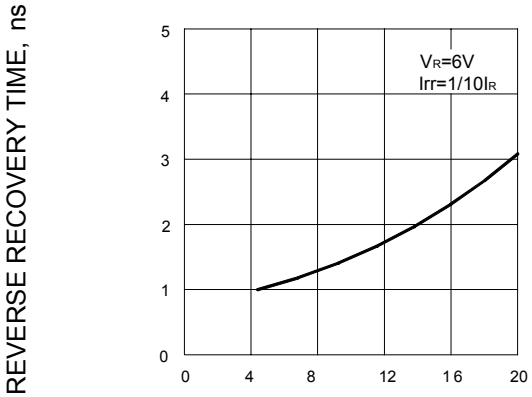
FORWARD VOLTAGE, V

FIG.3 -- CAPACITANCE BETWEEN TERMINALS CHARACTERISTICS



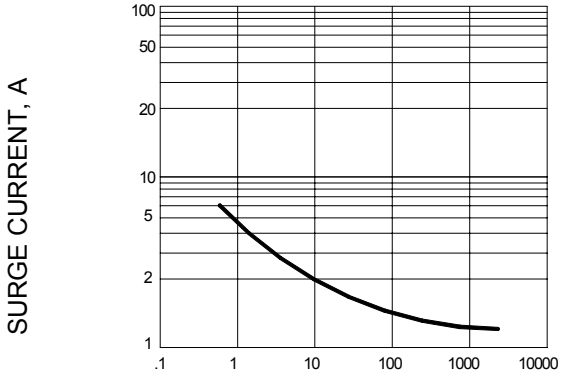
REVERSE VOLTAGE, V

FIG.4 -- REVERSE RECOVERY TIME CHARACTERISTICS



FORWARD CURRENT, mA

FIG.5 -- SURGE CURRENT CHARACTERISTICS



PULSE WIDTH, ms

FIG.6 -- REVERSE RECOVERY TIME (trr) MEASUREMENT CIRCUIT