HFZT

1SS131

Small Signal Switching Diodes

REVERSE VOLTAGE : 80 V
CURRENT: 130 mA

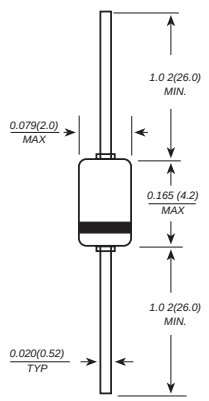
FEATURES

- Glass sealed envelope. (MSD)
- High reliability

MECHANICAL DATA

- Case: DO-35, glass case
- Polarity: Color band denotes cathode

DO-35(GLASS)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

		1SS131	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 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℃	I_R	0.5	μA
at rated DC blocking voltage @T_A=150℃		50	
Reverse recovery time @I_F=10mA,V_R=6V,R_L=50Ω	t_{rr}	4.0	ns
Operating junction temperature range	T_J	- 55 ---- + 175	℃
Storage temperature range	T_{STG}	- 55 ---- + 175	℃

RATINGS AND CHARACTERISTIC CURVES

Typical Characteristics

FIG.1 –FORWARD CHARACTERISTICS

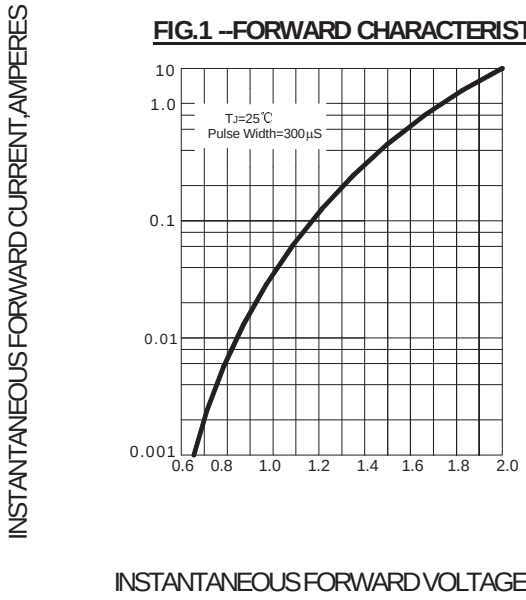


FIG.2 -- SURGE CURRENT CHARACTERISTICS

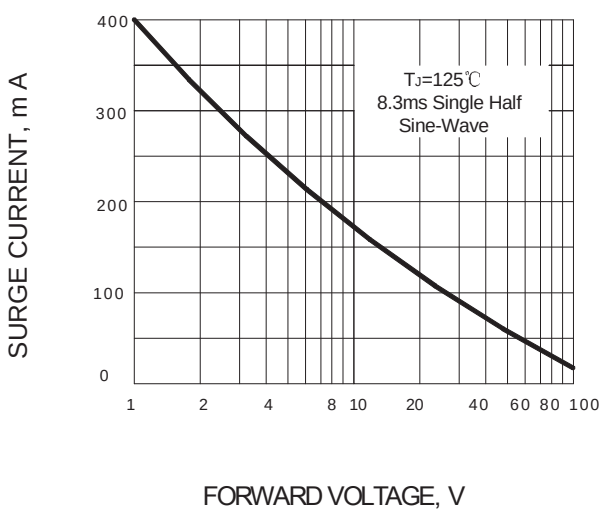


FIG.3 -- REVERSE CHARACTERISTICS

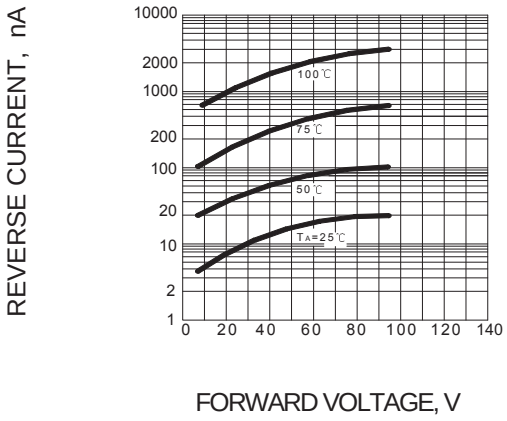


FIG.4 -- REVERSE RECOVERY TIME CHARACTERISTICS

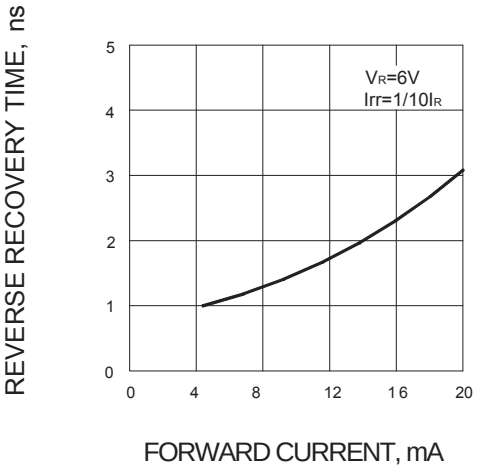


FIG.5 -- REVERSE RECOVERY TIME (trr) MEASUREMENT CIRCUIT