SMALL SIGNAL SCHOTTKY DIODE

VOLTAGE RANGE: 100 V
CURRENT: 100 mA

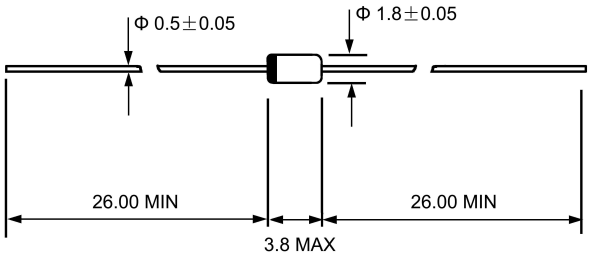
FEATURES

◇ For general purpose applications
◇ This diode features very low turn-on voltage and fast switching. These devices are protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges

MECHANICAL DATA

◇ Case:JEDEC DO--35,glass case
◇ Polarity: Color band denotes cathode end
◇ Weight: Approx. 0.13 gram

DO - 35(GLASS)



Dimensions in millimeters

ABSOLUTE RATINGS

	Symbols	Value	UNITS
Continuous reverse voltage	V_{RRM}	100	V
Forw ard continuous current @T_A=25℃	I_F	100 [1)]	mA
Repetitive peak forward current tp≤1s,δ≤0.5	I_{FRM}	350 [1)]	mA
Surge forw ard current @tp≤10ms	I_{FSM}	750 [1)]	mA
Pow er dissipation @T_A=95℃	P_{tot}	100 [1)]	mW
Junction temperature	T_J	-55 ---+ 125	℃
Ambient operating temperature range	T_L	230	℃
Storage temperature range	T_{STG}	-55 ---+ 150	℃

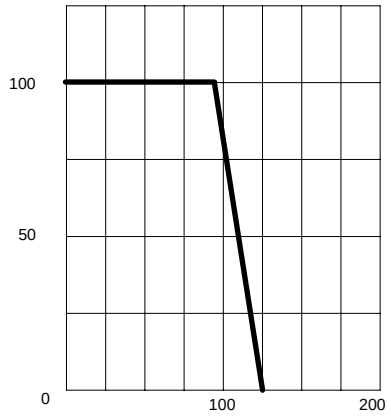
1) On infinite heatsink with 4mm lead length.

ELECTRICAL CHARACTERISTICS

	Symbols	Min.	Typ.	Max.	UNITS
Reverse breakdown voltage @I_R=100μ A,T_j=25℃	V_{BR}	100	-	-	V
Forw ard voltage @ I_F=1mA,T_j=25℃	V_F	-	0.4	0.45	V
@ I_F=200mA,T_j=25 ℃		-	-	1.0	
Leakage current @T_j=25 ℃	I_R	-	-	0.1	μA
VR=50V @T_j=100 ℃		-	-	20	
Junction capacitance at VR=1V,f=1MHz	C_J	-	-	20	pF
Thermal resistance junction to ambient	$R_{\theta JA}$	-	-	300[1)]	℃/W

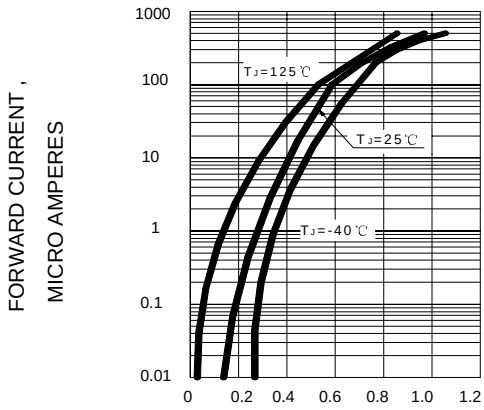
2)Pulse test tp<300 μs, δ <2%

FIG.1 – ADMISSIBLE POWER DISSIPATION VS. AMBIENT TEMPERATURE



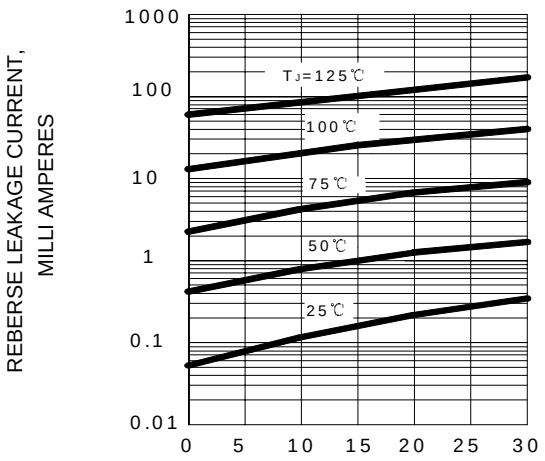
AMBIENT TEMPERATURE(℃)

FIG. 2–TYPICAL INSTANTANEOUS FORWORD CHARACTERISTICS



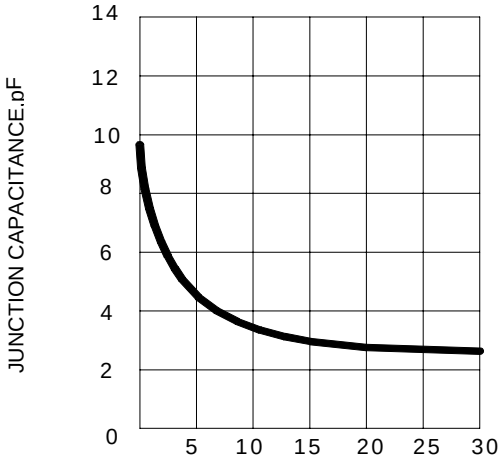
FORWARD VOLTAGE,VOLT

FIG. 3 – TYPICAL REVERSE CHARACTERISTICS



REVERSE VOLTAGE, VOLT

FIG.4 – TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE, VOLT