



**Reverse Voltage: 100Volts**  
**Forward Current:0.10Amps**



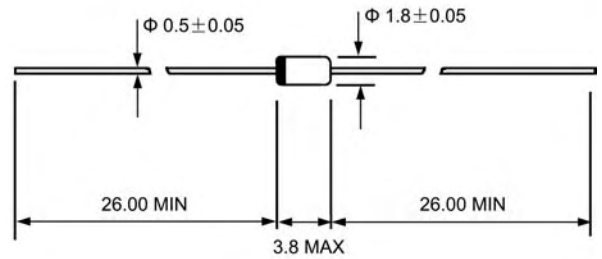
### Features

- ◇ 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
Forward continuous current @ $T_A=25^{\circ}C$	$I_F$	100 <sup>1)</sup>	mA
Repetitive peak forward current tp 1s, 0.5	$I_{FRM}$	350 <sup>1)</sup>	mA
Surge forward current @tp 10ms	$I_{FSM}$	750 <sup>1)</sup>	mA
Power dissipation @ $T_A=95^{\circ}C$	$P_{tot}$	100 <sup>1)</sup>	mW
Junction temperature	$T_J$	-55 ----+ 125	$^{\circ}C$
Ambient operating temperature range	$T_L$	230	$^{\circ}C$
Storage temperature range	$T_{STG}$	-55 ----+ 150	$^{\circ}C$

1) On infinite heatsink with 4mm lead length.

### ELECTRICAL CHARACTERISTICS

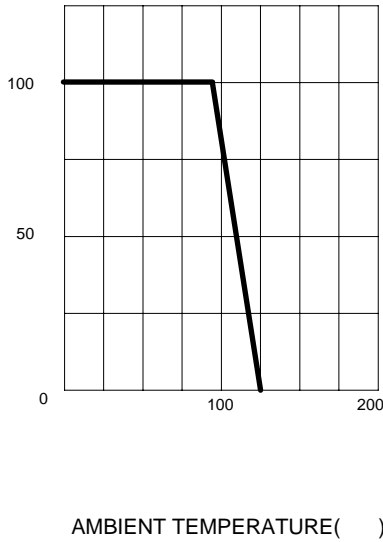
	Symbols	Min.	Typ.	Max.	UNITS
Reverse breakdown voltage @ $I_R=100\mu A, T_j=25^{\circ}C$	$V_{BR}$	100	-	-	V
Forward voltage @ $I_F=1mA, T_j=25^{\circ}C$	$V_F$	-	0.4	0.45	V
@ $I_F=200mA, T_j=25^{\circ}C$		-	-	1.0	
Leakage current @ $T_j=25^{\circ}C$	$I_R$	-	-	0.1	$\mu A$
$V_R=50V$ @ $T_j=100^{\circ}C$		-	-	20	
Junction capacitance at $V_R=1V, f=1MHz$	$C_J$	-	-	20	pF
Thermal resistance junction to ambient	$R_{\theta JA}$	-	-	300 <sup>1)</sup>	$^{\circ}C/W$

2) Pulse test tp<300  $\mu s$ ,  $\delta$  <2%

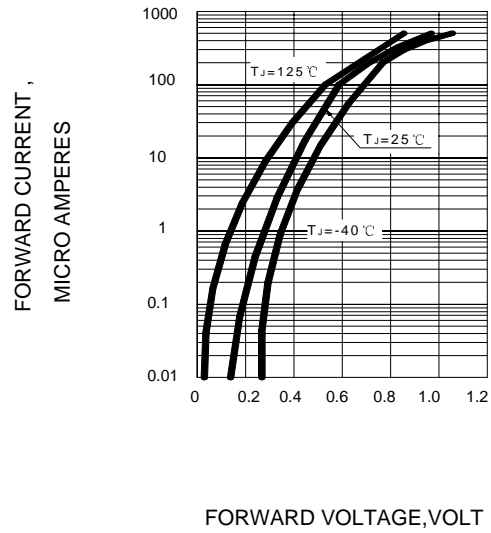


### Ratings AND Characteristic Curves

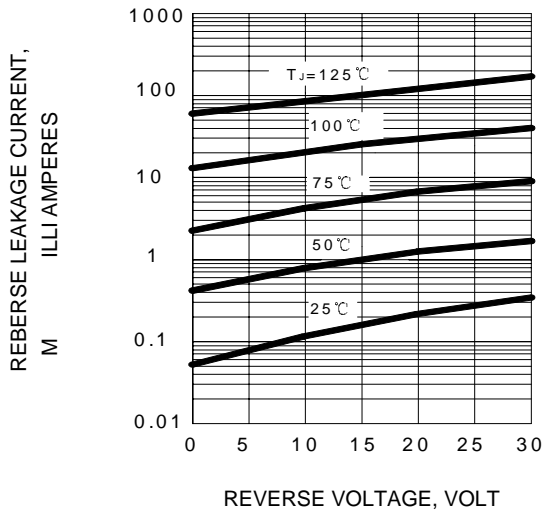
**FIG.1 – ADMISSIBLE POWER DISSIPATION VS. AMBIENT TEMPERATURE**



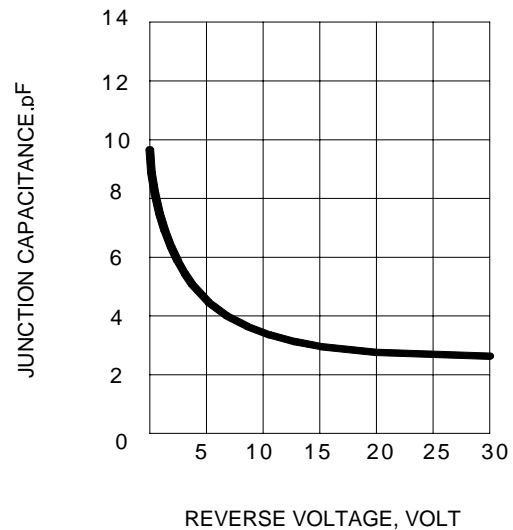
**FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG.3 – TYPICAL REVERSE CHARACTERISTICS**



**FIG4 – TYPICAL JUNCTION CAPACITANCE**



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
DO-35	5000/AMMO	100000	41X28.5X38	14.57	13.07