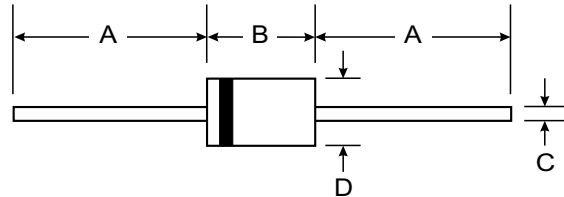


Features

- 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		
Dim	Min	Max
A	25.40	—
B	—	4.00
C	—	0.60
D	—	2.00
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

	Symbols	Value	UNITS		
Continuous reverse voltage	V_R	30.0	V		
Forward continuous current @ $T_A=25^\circ\text{C}$	I_F	200 ¹⁾	mA		
Peak forward current @ $T_A=25^\circ\text{C}$	I_{FM}	300 ¹⁾	mA		
Surge forward current @ $t_p < 1\text{s}, T_A=25^\circ\text{C}$	I_{FSM}	600 ¹⁾	mA		
Power dissipation @ $T_A=65^\circ\text{C}$	P_{tot}	200 ¹⁾	mW		
Junction temperature	T_J	125	$^\circ\text{C}$		
Ambient operating temperature range	T_A	-55 ---+ 125	$^\circ\text{C}$		
Storage temperature range	T_{STG}	-55 ---+ 150	$^\circ\text{C}$		
	Symbols	Min.	Typ.	Max.	UNITS
Reverse breakdown voltage	V_R	30.0			V
Forward voltage Pulse test $t_p < 300\ \mu\text{s}, \Delta < 2\%$ @ $I_F=0.1\text{mA}$ @ $I_F=1\text{mA}$ @ $I_F=10\text{mA}$ @ $I_F=30\text{mA}$ @ $I_F=100\text{mA}$	V_F		0.5	0.24 0.32 0.4 0.8	V V V V V
Leakage current $V_R=25\text{V}$	I_R			2.0	μA
Junction capacitance at $V_R=1\text{V}, f=1\text{MHz}$	C_J			10	pF
Reverse recovery time @ $I_F=10\text{mA}, I_R=10\text{mA}, I_R=1\text{mA}$	t_{rr}			5	ns
Thermal resistance junction to ambient	$R_{\theta JA}$			430 ¹⁾	$^\circ\text{C}/\text{W}$

1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature



FIG.1-- ADMISSIBLE POWER DISSIPATION VS. AMBIENT TEMPERATURE

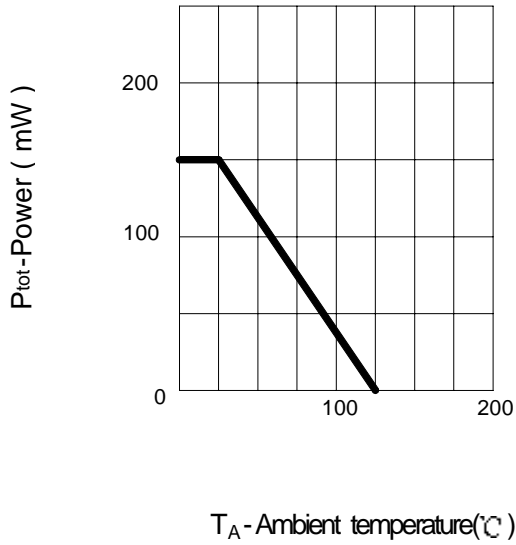


FIG. 2-- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

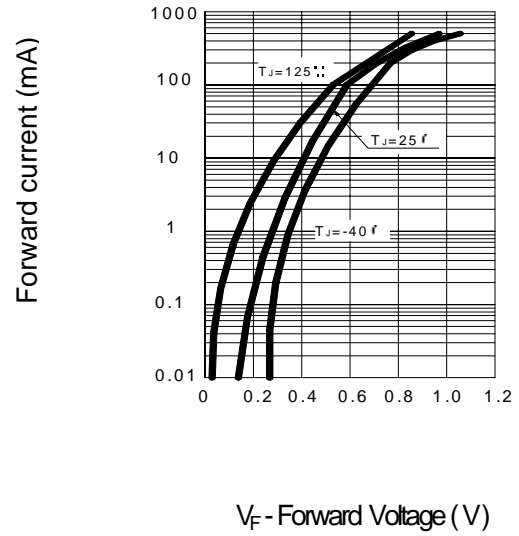


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

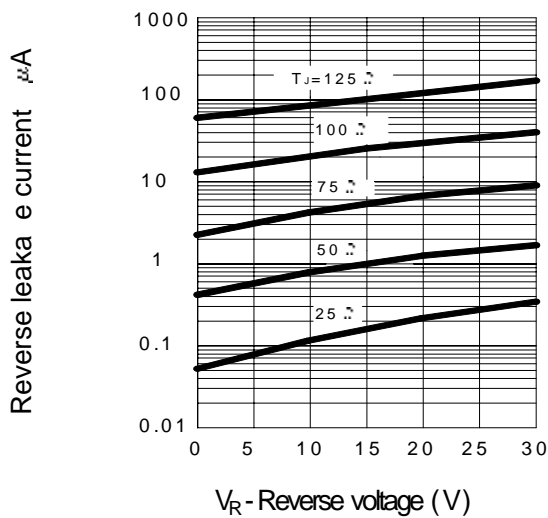


FIG.4 - TYPICAL JUNCTION CAPACITANCE

