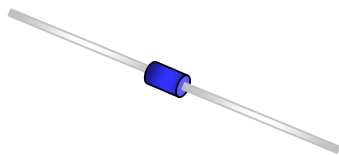


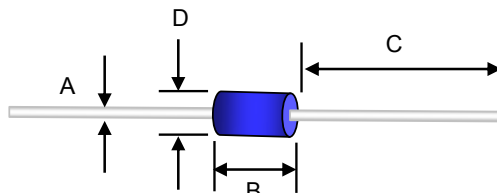
Small Signal Diode



**DO-35 Axial Lead
HERMETICALLY SEALED GLASS**

Features

- ✧ Designed for through-hole Device Type Mounting.
- ✧ Hermetically Sealed Glass.
- ✧ All external surface are corrosion resistant and terminals are readily solderable.
- ✧ High reliability glass passivation insuring parameter stability and protection against junction contamination.
- ✧ Pb free version and RoHS compliant



Mechanical Data

- ✧ Case :DO-35 Solder Hot Dip Tin (Sn) lead finish
- ✧ Terminal: Pure tin plated, lead free., solderable per MIL-STD-202, Method 208 guaranteed
- ✧ High temperature soldering guaranteed: 260°C/10s
- ✧ Marking : DB3/DB3TG
- ✧ Weight : 0.1255 gram (approximately)

Dimensions	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	0.45	0.55	0.018	0.022
B	3.05	5.08	0.120	0.200
C	25.4	38.1	1.000	1.500
D	1.53	2.28	0.060	0.090

Ordering Information

Part No.	Package	Packing
DB3/DB3TG RI	DO-35	5Kpcs / 10" Reel

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Maximum Ratings

Type Number	Symbol	Value	Units
Power Dissipation	P_D	150	mW
Repetitive Peak Forward Current Pulse Width= 20μsec	I_{FRM}	2	A
Thermal Resistance (Junction to Ambient) (Note 1)	$R_{\theta JA}$	400	°C/W
Junction and Storage Temperature Range	T_J, T_{STG}	-40 to + 125	°C

Electrical Characteristics

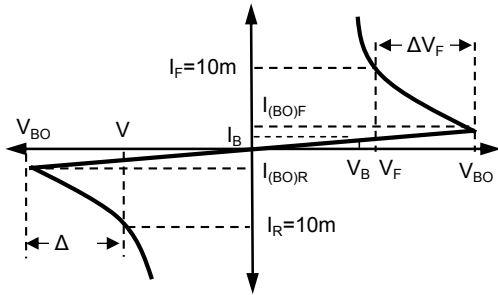
Type Number	Symbol	DB3	DB3TG	Units
Break-over Voltage C= 22nF	V_{BO}	32	32	V
Break-over Voltage Symmetry C= 22nF	+ / - V_{BO}	+ / - 3	+ / - 2	V
Break-over Current C= 22nF	I_{BO}	100	15	nA
Maximum Leakage Current $V_R=0.5V$	I_R	10		μA
Junction Capacitance $V_R=0, f=1.0MHz$	C_J	22.0		nF
Output Voltage	V_O	5		V
Reverse Recovery Time (Note2)	T_{rr}	1.5		μs

Notes:1. Valid provided that electrodes are kept at ambient temperature

Notes:2. Test Condition : $I_F=0.5A, R_L=100\Omega$

Small Signal Diode

Rating and Sharacteristic Curves



- V_{BO} : Break-Over Voltage at I_{BO}
- I_{BO} : Test current for voltage V_{BO}
- V_F : Dynamic impedance at I_F
- I_B : Test current for voltage V_B
- V_B : Voltage at current I_B
- I_B : Test current for voltage V_B

FIG 1 Admissible Power Dissipation Curve

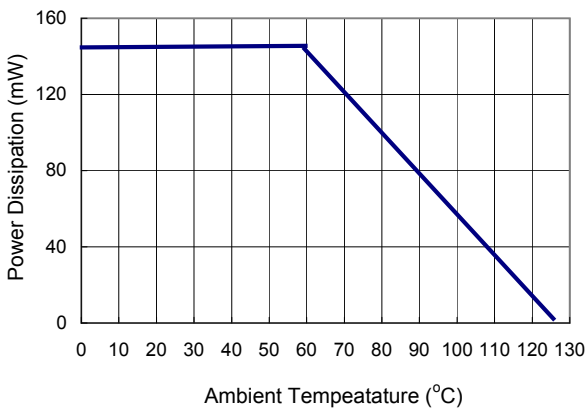


FIG 2 Typical Junction Capacitance

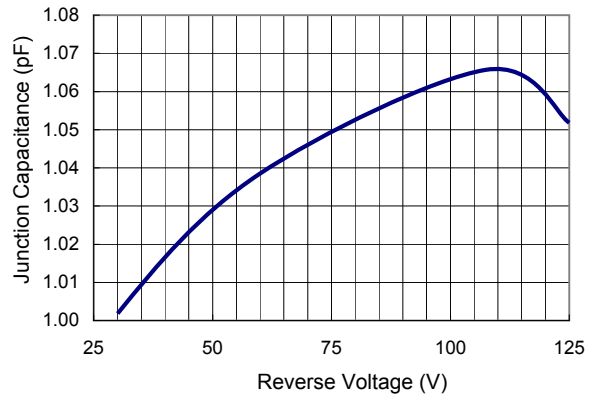


FIG 3 Peak pulse current versus duration

