

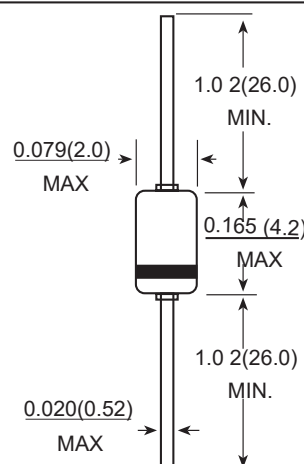
DO-35 SILICON BIDIRECTIONAL DIODE

Features

- They demonstrate low breakovercurrent at breakover voltage as they withstand peak pulse current.
- The breakoversymmetry is within three volts(DB3,DC34,DB4) or four volts(DB6).
- JF's DB3/DC34/DB4/DB6 are bi-directional triggered diode designed to operate in conjunction with Triacs and SCR's
- Component in accordance to RoHS 2015/863 and WEEE 2012/19/EU High temperature soldering gearanteed:260/10 seconds at terminals

MECHANICAL DATA

- Case: DO-35
- Polarity: Color band denotes cathode end
- Mounting Position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Symbols	Parameters		Value				Units
			DB3	DC34	DB4	DB6	
PC	Power Dissipation on Printed Circuit(L=10mm)	T _A =50 °C	150				mW
I _{TRM}	Repetitive Peak on-state Current	t _p =10μs f=100Hz	2.0	2.0	2.0	1.6	A
T _{STG} /T _J	Storage and Operating Junction Temperature		40 to+125/-40 to=-+110				°C

Electrical Specification (T_A=25°C unless otherwise specified)

Symbols	Parameters	Test Condition		Value				Units
				DB3	DC34	DB4	DB6	
V _{BO}	Breakover Voltage (Note 2)	C=22nF(Note 2) See diagram 1	Min	28	30	35	56	V
			Typ	32	34	40	60	
			Max	36	38	45	70	
+V _{BO} - -V _{BO}	Breakover Voltage Symmetry	C=22nF(Note 2) See diagram 1	Max	±3			±4	V
ΔV	Dynamic Breakover Voltage (Note1)	ΔI=(I _{BO} to I _F =10mA) See Diagram 1	Min	5			10	V
V _O	Output Voltage (Note 1)	See Diagram 2	Min	5				V
I _{BO}	Breakover Current (Note1)	C=22nF(Note 2)	Max	100				μA
t _r	Rise Time (Note1)	See Diagram 3	Typ	1.5				μs
I _B	Leakage Current (Note1)	V _B =0.5 V _{BO} max see diagram 1	Max	10				μA

RATINGS AND CHARACTERISTIC CURVES

DIAGRAM 1: Current-voltage characteristics

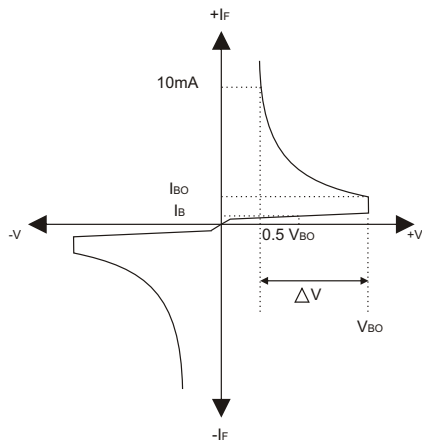


FIG.1-Power dissipation versus ambient temperature (maximum values) P

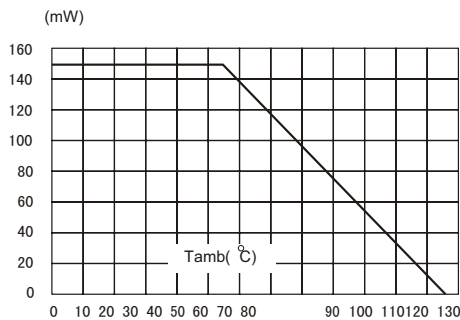


FIG.3-Peak pulse current versus pulse duration (maximum values)

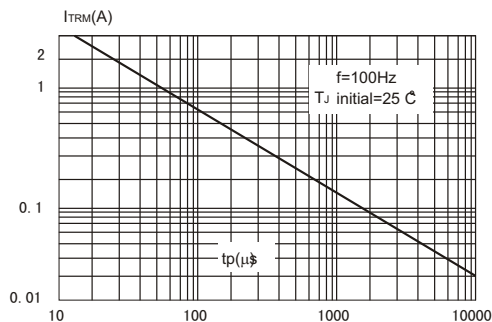


DIAGRAM 2: Test circuit for output voltage

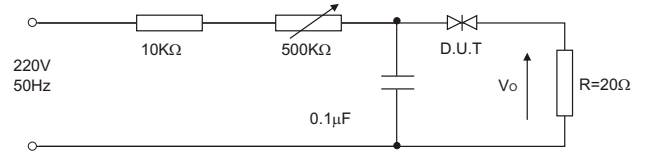


DIAGRAM 3: Test circuit see diagram2 adjust R for $P = 0.5\text{A}$

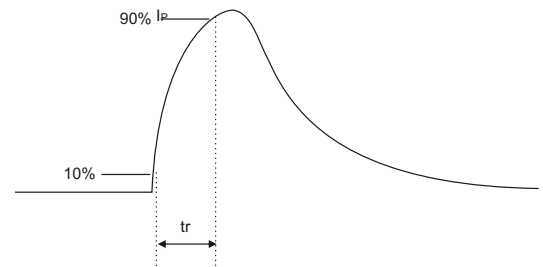


FIG.2-Relative variation of V_{BO} versus junction temperature (typical values)

