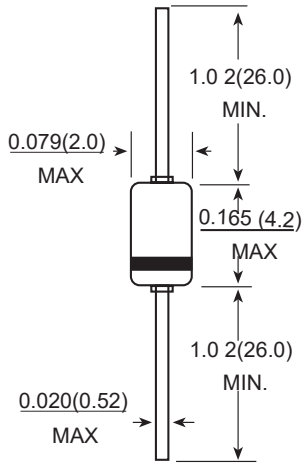
DO-35 SILICON BIDIRECTIONAL DIODE

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 solsering 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	
P_C	Power Dissipation on Printed Circuit(L=10mm)	T_A=50 ℃	150				mW
I_{TRM}	Repetitive Peak on-state Current	tp=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				℃

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	
$\lvert+V_{BO}\rvert - \lvert-V_{BO}\rvert$	Breakover Voltage Symmetry	C=22nF(Note 2) See diagram 1	Max	±3			±4	V
$\lvert\triangle V\rvert$	Dynamic Breakover Voltage (Note1)	△I=(I_{BO} to IF=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
tr	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

DDIAGRAM 1: Current-voltage characteristics

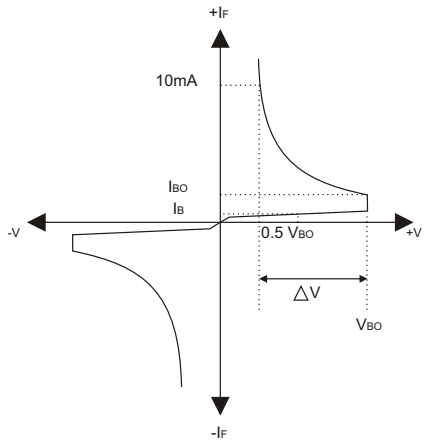


DIAGRAM 2: Test circuit for output voltage

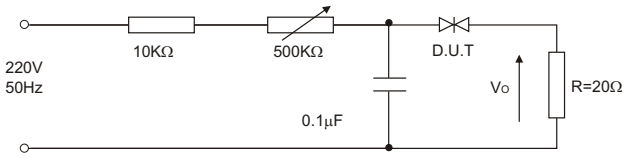


DIAGRAM 3: Test circuit see diagram2 adjust R for P = 0 .5 A I

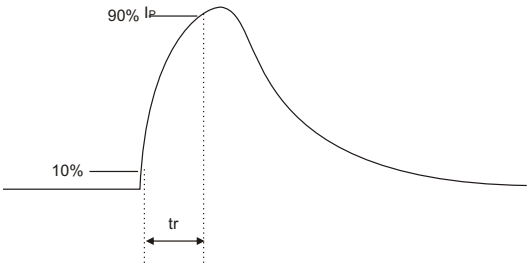


FIG.1-Power dissipation versus ambie nt temperature (maximum values) P

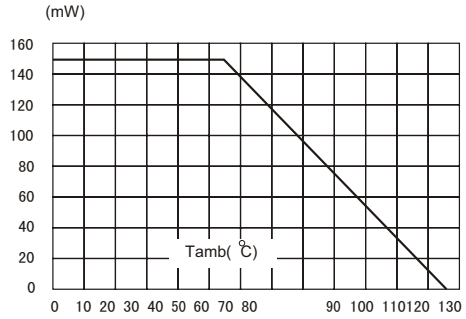


FIG.2-Relative variation of VBO versus juncti on temperature(typical values)

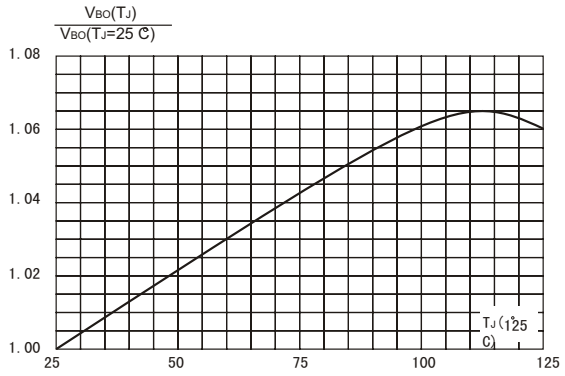


FIG.3-Peak pulse current versus pulse durati on (maximum values)