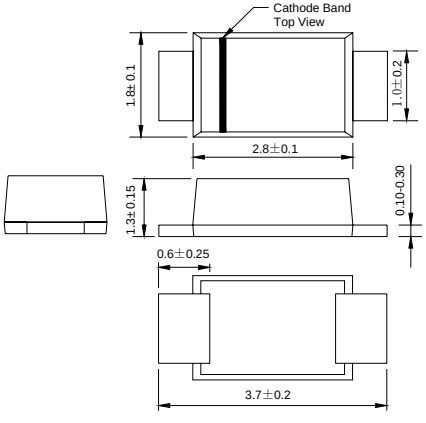
SODDB3

BIDIRECTIONAL TRIGGER DIODE

Reverse Voltage - 32 Volts Power: 150mW

SOD-123FL



Dimensions in millimeters

FEATURES

- Small glass structure ensures high reliability
- VBO:28-36V version
- Low breakover current
- High temperature soldering guaranteed
  250℃/10 seconds,0.375”(9.5mm) lead length,
  5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC SOD-123FL molded plastic body
Terminals: Solderable per MIL-STD-750, Method 2026
Mounting Position: Any
Weight:0.0007 ounce, 0.02gram
Marking :DB3

MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

	TEST CONDITION	SYMBOLS	VALUE			UNITS
			Min.	Typ.	Max.	
Breakover voltage *	C=22nF **	V_{BO}	28	32	36	VOLTS
Breakover voltage symmetry	C=22nF **	$I+V_{BO}I-I-V_{BO}I$	-3		3	VOLTS
Dynamic breakover voltage *	(NOTE 1)	$I\Delta V\pm I$	5			VOLTS
Output voltage *	DIAGRAM2	V_O	5			VOLTS
Breakover current *	C=22nF **	I_{BO}			100	μA
Rise time *	DIAGRAM3	tr		1.5		μS
Leakage current *	$V_R=0.5V_{BO}$	I_B			10	μA
Power dissipation on printed circuit	T_A=65℃	Pd			150	mW
Repetitive peak on-state current	tp=20μs f=100Hz	I_{TRM}			2	A
Thermal Resistances from Junction to ambient		$R_{\Theta JA}$			400	°C/W
Thermal Resistances from Junction to lead		$R_{\Theta JL}$			150	
Operating junction and storage temperature range		T_J,T_{STG}	-40		125	°C

* :Electrical characteristic appoicaboe in forward and reverse directions.
** :Connected in parallel with the devices.
Note 1:I_{BO} from I_{BO} to 10mA

MDD ELECTRONIC

RATINGS AND CHARACTERISTIC CURVES SODDB3

DIAGRAM 1:CURRENT-VOLTAGE CHARACTERISTICS

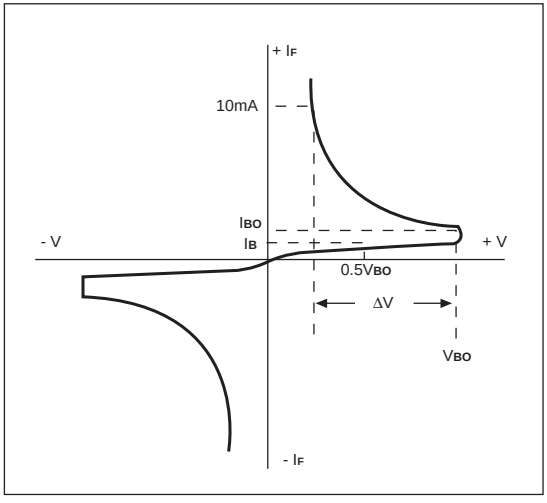


DIAGRAM 2:TEST CIRCUIT OUTPUT VOLTAGE

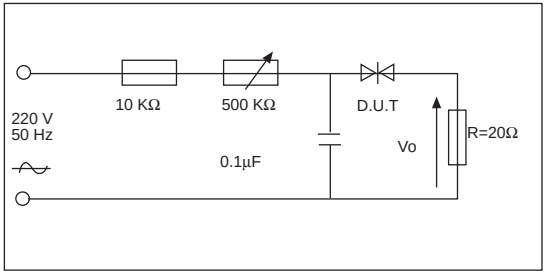


DIAGRAM 3:TEST CIRCUIT SEE DIAGRAM 2.ADJUST R FOR IP=0.5A

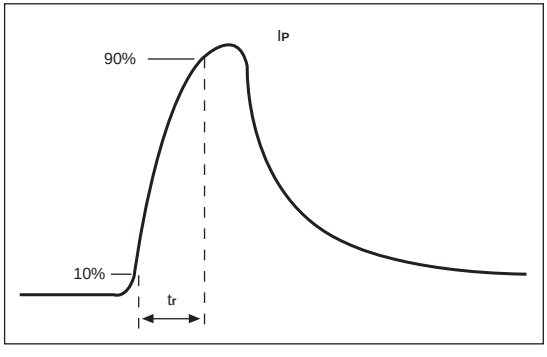


FIG. 1-POWER DISSIPATION VERSUS AMBIENT TEMPERATURE(MAXIMUM VALUES)

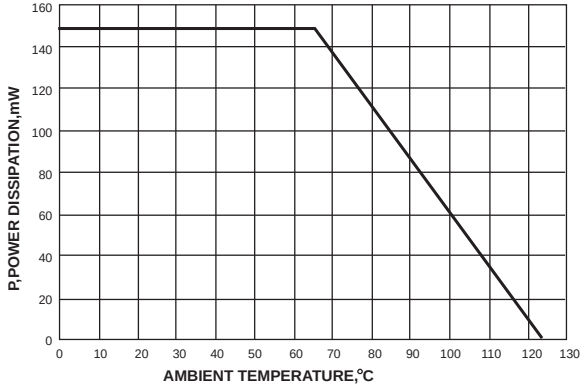


FIG. 2-PEAK PULSE CURRENT VERSUS PULSE DURATION (MAXIMUM VALUES)

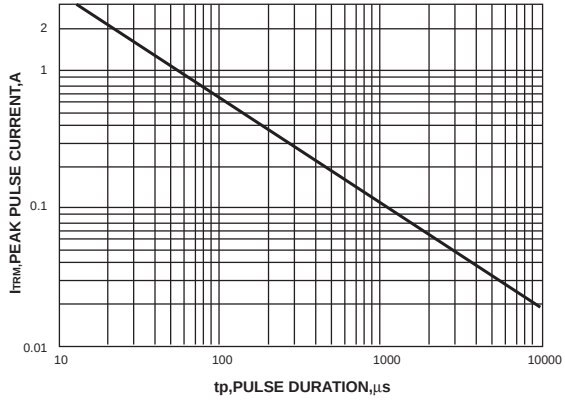


FIG. 3-RELATIVE VARIATION OF VBO VERSUS JUNCTION TEMPERATURE(TYPICAL VALUES)