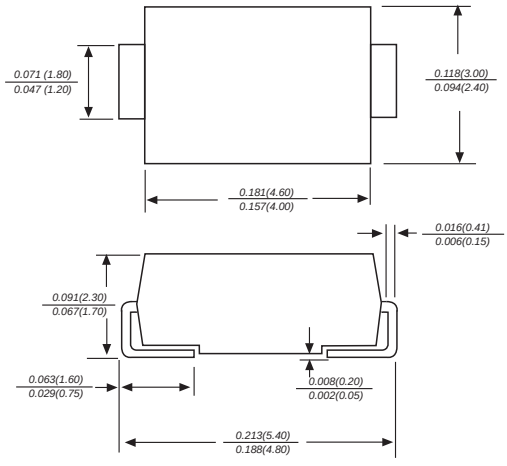
DB3

BIDIRECTIONAL TRIGGER DIODE

Reverse Voltage - *32 Volts* ***Power:*** *150mW*

DO-214AC



Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AC molded plastic body
Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight:0.003 ounce, 0.093 grams

MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25°C 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 **	$\|+V_{BO}\|-\|-V_{BO}\|$	-3		3	VOLTS
Dynamic breakover voltage *	(NOTE 1)	I D V ± I	5			VOLTS
Output voltage *	DIAGRAM2	V_O	5			VOLTS
Breakover current *	C=22nF **	I_{BO}			100	μA
Rise time *	DIAGRAM3	tr		1.5		mS
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=20ms f=100Hz	I_{TRM}			2	A
Thermal Resistances from Junction to ambient		$R_{\theta JA}$			400	℃/W
Thermal Resistances from Junction to lead		$R_{\theta JL}$			150	
Operating junction and storage temperature range		T_J,T_{STG}	-40		125	℃

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

RATINGS AND CHARACTERISTIC CURVES DB3

DIAGRAM 1:CURRENT-VOLTAGE CHARACTERISTICS

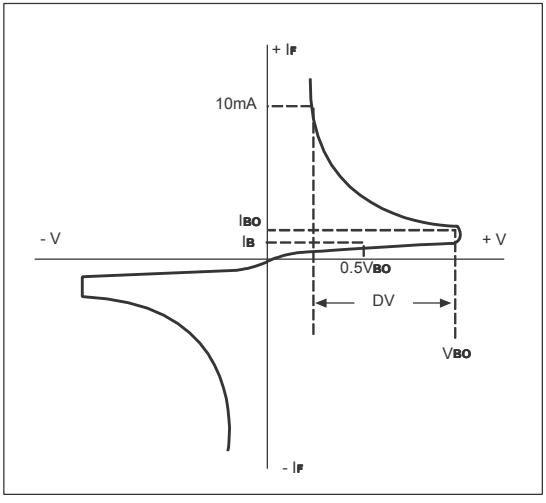


DIAGRAM 2:TEST CIRCUIT OUTPUT VOLTAGE

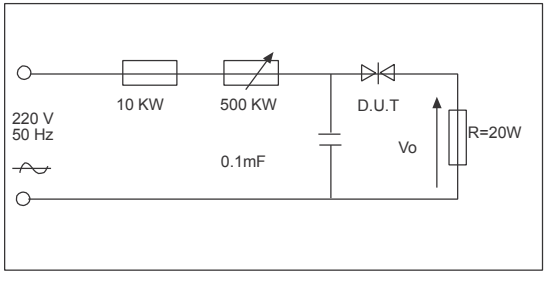


DIAGRAM 3:TEST CIRCUIT SEE DIAGRAM 2.ADJUST R FOR IP=0.5A

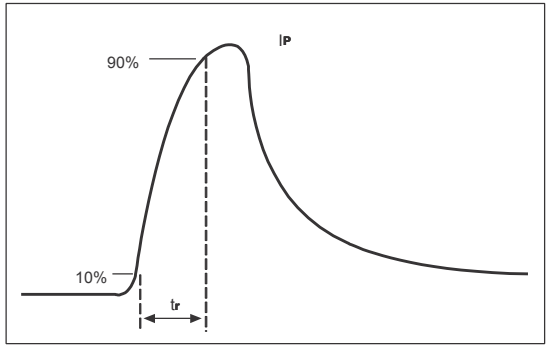


FIG. 1-POWER DISSIPATION VERSUS AMBIENT TEMPERATURE(MAXIMUM VALUES)

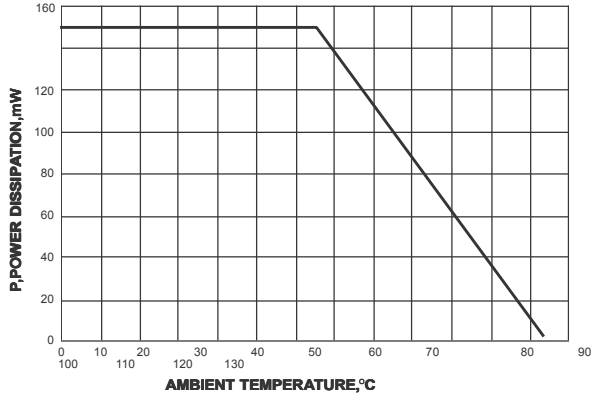


FIG. 2-PEAK PULSE CURRENT VERSUS PULSE DURATION (MAXIMUM VALUES)

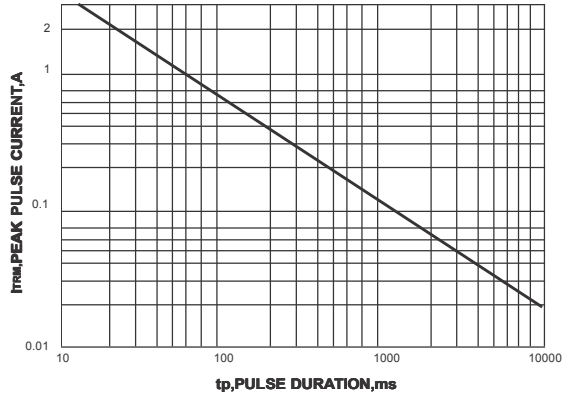


FIG. 3-RELATIVE VARIATION OF VBO VERSUS JUNCTION TEMPERATURE(TYPICAL VALUES)