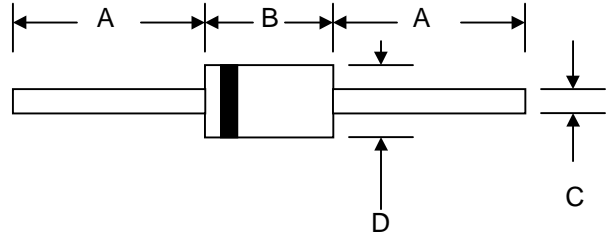




### SILICON BIDIRECTIONAL DIACS

#### Features

- VBO:28-36V
- Low Breakover Current



#### Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.35 grams (approx.)
- Mounting Position: Any
- Marking: Type Number

DO-41		
Dim	Min	Max
A	25.4	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

#### Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$

#### ABSOLUTE RATINGS

PARAMETERS	SYMBOL	VALUE	UNITS
		DB3	
Power Dissipation on Printed Cir cuit(L=10mm) $T_A=50^\circ\text{C}$	$P_c$	150	mW
Repetitive Peak on-state Current $T_p=10\mu\text{s}$ $f=100\text{Hz}$	$I_{TRM}$	2.0	A
Storage and Operating Junction Temperature	$T_{STG}/T_J$	-40 to +125	$^\circ\text{C}$

#### ELECTRICAL CHARACTERISTICS

PARAMETERS	SYMBOLS	TEST CONDITIONS	VALUE	UNITS	
			DB3		
Breakover Voltage*	$V_{BO}$	C=22nF** See Diagram 1	Min	28	V
			Typ	32	
			Max	36	
Breakover Voltage Symmetry	$1+V_{BO1}$ $1-V_{BO1}$	C=22nF** See Diagram 1	Max	$\pm 3$	V
Dynamic Breakover Voltage	$1 \pm \Delta V_1$	$\Delta I = (I_{BO} \text{ to } I_F = 10\text{mA})$ See FIG 1	Min	5	V
Output Voltage*	$V_O$	See FIG 2	Min	5	V
Breakover Current*	$I_{BO}$	C=22nF**	Max	100	$\mu\text{A}$
Rise Time*	$t_r$	See FIG 3	Typ	1.5	$\mu\text{s}$
Leakage Current*	$I_B$	$I_B = 0.5 V_{BO} \text{ MAX}$ See FIG 3	Max	10	$\mu\text{A}$

NOTE:\* Electrical characteristics applicable in both forward and reverse directions.

\*\* Connected in parallel with the devices.



FIG.1-CURRENT-VOLTAGE CHARACTERISTICS

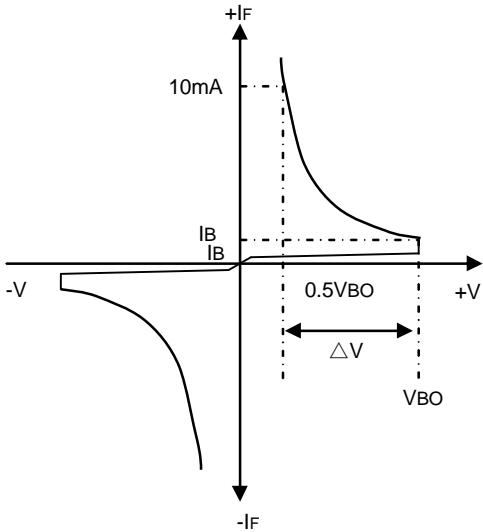


FIG.2-TEST CIRCUIT FOR OUTPUT VOLTAGE

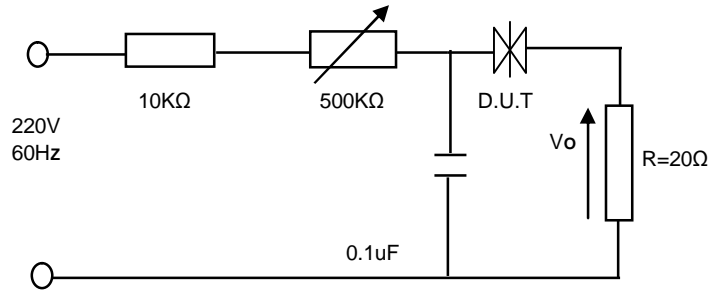


FIG.3-TEST CIRCUIT SEE FIG.2 ADJUST R FOR  $I_p=0.5A$

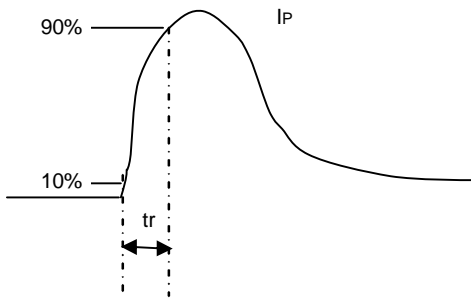


FIG.4-TEST CIRCUIT FOR OUTPUT

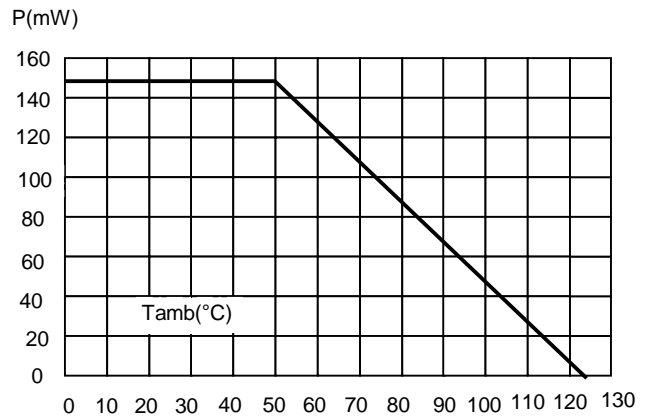


FIG.5-RELATIVE VARIATION OF  $V_{BO}$  VERSUS JUNCTION TEMPERATURE (TYPICAL VALUES)

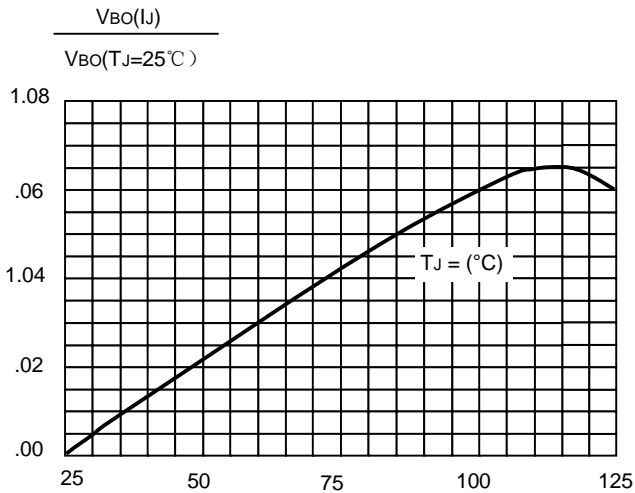


FIG.6-PEAK PULSE CURRENT VERSUS PULSE DURATION (MAXIMUM VALUES)

