VOLTAGE RANGE

32 to 60 Volts

RoHS

Features

- B_{vo} 32V/34V/40V/60V Versions
- Low Breakover Current
- High reliability glass passivation insuring parameter stability and protection against junction contamination
- High temperature soldering guaranteed
 260°C/10 seconds,0.375"(9.5mm)lead length at 5 lbs(2.3kg) tension

Mechanical Data

- Case: Transfer molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.012ounce, 0.33 grams

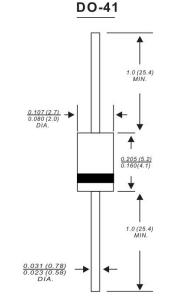
Absolute Ratings (limiting values)

• Ratings at 25°C ambient temperature unless otherwise specified

Symbol	Parameter	Value	Units	
Р	Power dissipation on printed circuit(L=10mm) T _A =65°C		150	mW
_{TRM}	Repetitive peak on-state current $T_p=20\mu S$ F=100Hz		2.0(DB3-DB4) 1.6(DB6)	Amps
T _J ,T _{STG}	Storage and operating junction temperature range	-40 to +125 -40 to +125	°C	

Thermal Resistances

Symbol	Parameter	Value	Units
P _{TH(J-A)}	Junction to ambient	400	°C/W
P _{TH(J-L)}	Junction-leads	150	°C/W



Dimensions in inches and (millimeters)



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Electrical Characteristics (T_=25°C)

Symbol Parameter Test		Test Conditions Limit -	Limit	Value				Units
			DB3	DC34	DB4	DB6	Units	
		C-2225	Min	28	30	35	56	
V _{BO}	Breakover voltage*	C=22nF** see diagram 1	Тур	32	34	40	60	Volts
			Max	36	38	45	70	
[+V _{BO} - -V _{BO}]	Breakover voltage voltage*	C=22nF**	Мах	±3 ±4		+4	Volts	
[80 80.]		see diagram 1					. 0.10	
I∆V±I	Dynamic breakover voltage*	$\Delta I = [I_{BO} \text{ to } I_F = 10 \text{ mA}]$	Min	5 10		10	Volts	
	Bynamie Breakever Veitage	see diagram 1			0		10	V OILO
Vo	Output voltage*	see diagram 2	Min	5			Volts	
I _{BO}	Breakover current*	C=22nF**	Max	100 50 100		00	μΑ	
tr	Rise time*	see diagram 3	Тур	1.5			μS	
	Leakage current*	$V_{B}=0.5V_{BO}$ max	Max	Max 10				μA
IB	Leakaye Current^	see diagram 1	IVIAX				μΑ	

*Electrical characteristic applicable in both forward and reverse directions.

**Connected in parallel with the devices.

DIAGRAM 1: Current-voltage characteristics

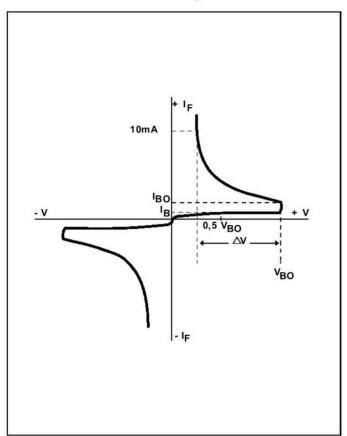
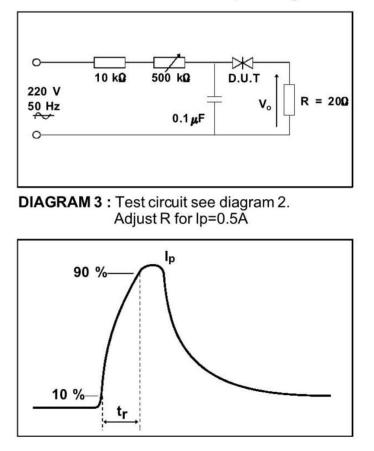


DIAGRAM 2 : Test circuit for output voltage





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Ratings and Characteristic Curves (T_A=25°C unless otherwise noted)

Fig.1: Power dissipation versus ambient temperature (maximum values)

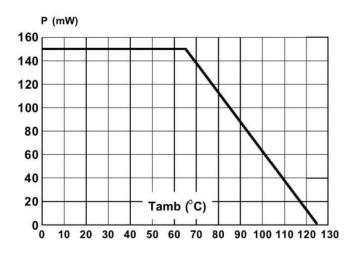
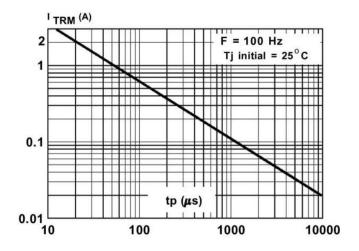
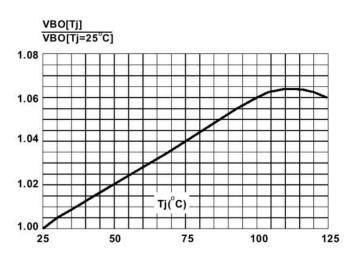


Fig.3 : Peak pulse current versus pulse duration (maximum values)



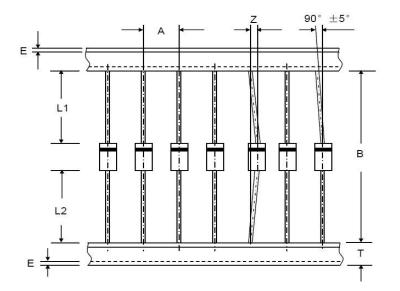
 $\label{eq:Fig.2:Relative variation of V_{BO} versus junction temperature (typical values)$





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Axial Lead Taping Specifications for Rectifiers



Component Outline	Component Pitch A	Inner Tape Pitch B		Cumulative	
Component Outline	±0.5mm	+0.5mm -0.4mm		Tolerance	
DO-204AL(DO-41)	5.0mm	52.4mm	26.0mm	2.0mm/20pitch	

ltem	Symbol	Specifications(mm)	Specifications(inch)
Component alignment	Z	1.2 max	0.048 max
Tape width	Т	6.0±0.4	0.236±0.016
Exposed adhesive	E	0.8 max	0.032 max
Body eccentricity	IL1-L2I	1.0 max	0.040 max

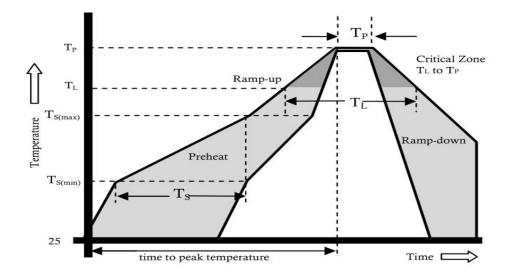


AXIAL BIDURECTIONAL TRIGGER DIOEE

VOLTAGE RANGE 32 to 60 Volts

DB3 THRU DB6

Reflow Profile



Reflow Condition		Pb-Free Assembly		
	Temperature Min.	+150°C		
Pre Heat	Temperature Max.	+200°C		
	Time(Min to Max)	60-180 secs.		
Average ra	mp up rate(Liquidus Temp(T_L) to peak)	3°C/sec. Max.		
Т	T_{s} (max) to T _L - Ramp-up Rate	3°C/sec. Max.		
Reflow	Temperature (T_L)(Liquidus)	+217°C		
Renow	Temperature (T _L)	60-150 secs.		
Peak Temp (T _P)		+(260+0/-5)°C		
Time within 5°C of actual Peak Temp (T $_{\scriptscriptstyle P}$)		25 secs.		
Ramp-down Rate		6°C/sec. Max.		
Time 25°C to peak Temp (T _P)		8 min. Max.		
Do not exceed		+260°C		



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