

#### **TRIGGER DIODES**

## DB3

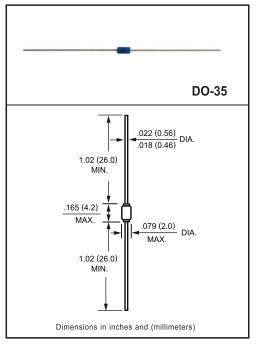
## FEATURES

\* VBO: 32V/34V/40V VERSIONS \* Low Breakover Current

#### DESCRIPTION

High reliability glass passivation insuring parameter stability and protection against junction contamination

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.



### MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

For capacitive load, derate current by 20%.

(			
RATING	SYMBOL	VALUE	UNITS
Repetitive Peak On-State Current tp=20uA,F=100Hz	ITRM	2	A
Power Dissipation (@ T <sub>A</sub> =50°C)	Б	150	mW
Derate Above +50°C		4.0	mW/°C
StorageTemperature Range	T <sub>STG</sub>	-40 to + 125	°C
Junction Temperature	Tj	125	°C

#### ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

RATING	SYMBOL	VALUE				
		DB3-1		DB3-2		UNITS
Breakover Voltage(Forward and Reverse)	VBO	Min	Max	Min	Max	Volts
at IBO,C=22nF**	. 80	30	34	28	36	
Maximum Breakover Voltage Symmetry delta VB0= +VB0 - -VB0  C=22nF	delta V <sub>BO</sub>	+/-2				
Minimum Dynamic Breakover Voltage delta I=IB0 to IF=10mA (see Fig3)	delta V+/-	5				
Minimum Output Voltage* (see Fig 2)	Vo	5				
Peak Breakover Current at Breakorver Voltage* C=22nF**	I <sub>BO</sub>	25 100		00	uA	
Rise Time* (see Fig3)	tr	1.5				
Leakage Current* VB=0.5VBo max (see Fig1)	Ι <sub>Β</sub>	10				

NOTES: 1. \*Electrical characteristic applicable in both forward and reverse derections.

2.\*\*Connected in parallel with the devices.

3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

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# RATING AND CHARACTERISTICS CURVES ( DB3 )

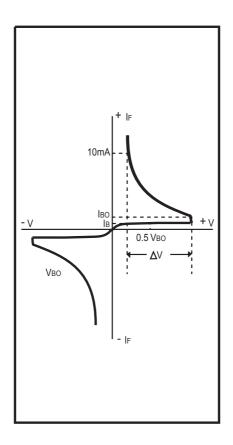


FIG.1 Current-voltage characteristics

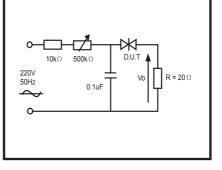


FIG.2 Test circuit for output voltage

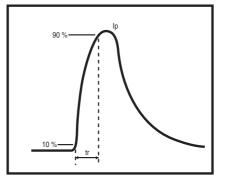
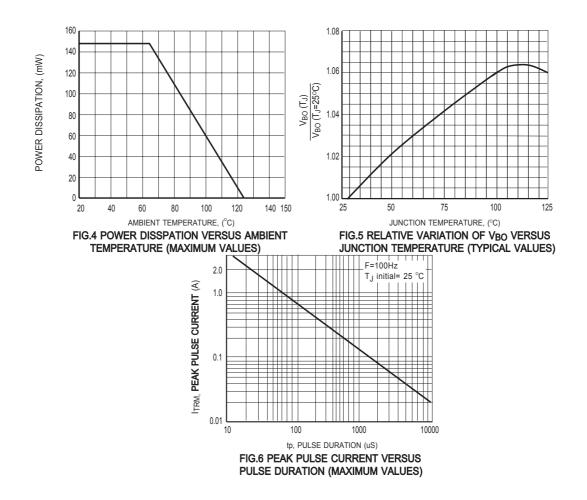


FIG.3 Test circuit see Fig.2 Adjust R for Ip=0.5A







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