

### **TRIGGER DIODES**

## DB3

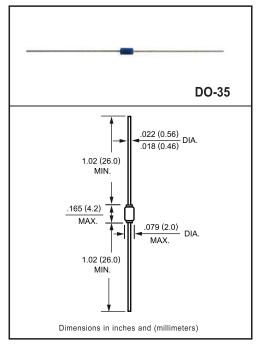
### FEATURES

\* 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%.

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

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

SYMBOL	VALUE				UNITS
	DB3-1		DB3-2		
VPO	Min	Max	Min	Max	Volts
. 90	30	34	28	36	0113
delta V <sub>BO</sub>	+/-2				
delta V+/-	5				Volts
Vo	5				Volts
IBO	25 100		00	uA	
tr	1.5				uS
l <sub>Β</sub>	10				uA
	V <sub>BO</sub> delta V <sub>BO</sub>  delta V+/-  V <sub>O</sub>  BO t <sub>r</sub>	DB3  DB3    VB0  Min    30  30    delta VB0  Idelta VH/I    V0  Idelta VH/I    IB0  22    tr  Idelta VH/I	SYMBOL  DB3-1    VBO  Min  Max    30  34  4    delta VBO  +/  +/     delta V+/-   +/  +/    Vo	SYMBOL  DB3-1  DB3    VBO  Min  Max  Min    30  34  28    delta VBO  +/-2      delta V+/-   5     VO  5     IBO  25  1    tr  1.5	SYMBOL  DB3-1  DB3-2    VBO  Min  Max  Min  Max    30  34  28  36    delta VBO  +/-2

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)".

2007-3

# RATING AND CHARACTERISTICS CURVES ( DB3 )

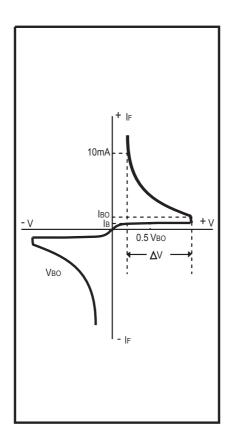


FIG.1 Current-voltage characteristics

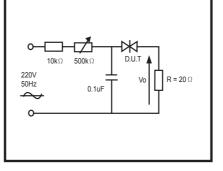


FIG.2 Test circuit for output voltage

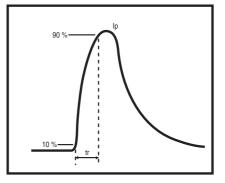
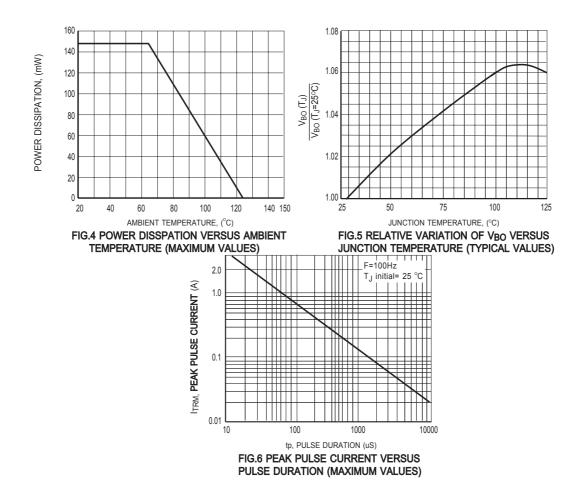


FIG.3 Test circuit see Fig.2 Adjust R for Ip=0.5A









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