

TRIGGER DIODES

FEATURES

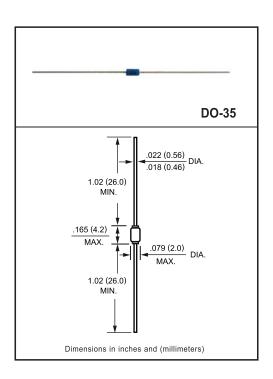
- * VBO: 32V/34V/40V VERSIONS
- * Low Breakover Current

DESCRIPTION

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



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

RATING	SYMBOL	VALUE	UNITS
Repetitive Peak On-State Current tp=20uA,F=100Hz	I _{TRM}	2	А
Power Dissipation (@ T _A =50°C)	Р	150	mW
Derate Above +50°C		4.0	mW/°C
Storage Temperature Range	T _{STG}	-40 to + 125	°C
Junction Temperature	TJ	125	°C

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

RATING	SYMBOL	VALUE				UNITS
		DB3-1		DB3-2		UNITS
Breakover Voltage(Forward and Reverse)	V _{BO}	Min	Max	Min	Max	Volts
at Iso,C=22nF**		30	34	28	36	
Maximum Breakover Voltage Symmetry delta V _{BO} = +V _{BO} - -V _{BO} C=22nF	delta V _{BO}	+/-2				
Minimum Dynamic Breakover Voltage delta I=IBO 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 _{BO}	2	25		100	
Rise Time* (see Fig3)	t _r	1.5				
Leakage Current* V _B =0.5V _{BO} max (see Fig1)	IB	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)".

2007-3

RATING AND CHARACTERISTICS CURVES (DB3)

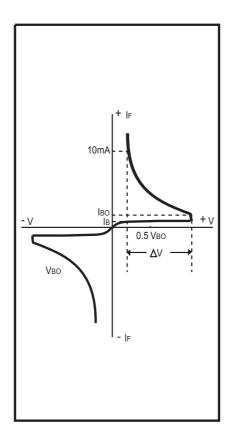


FIG.1 Current-voltage characteristics

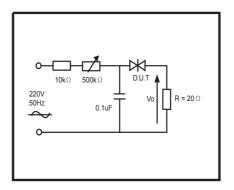


FIG.2 Test circuit for output voltage

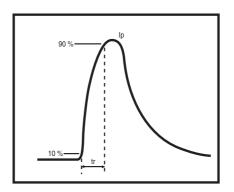
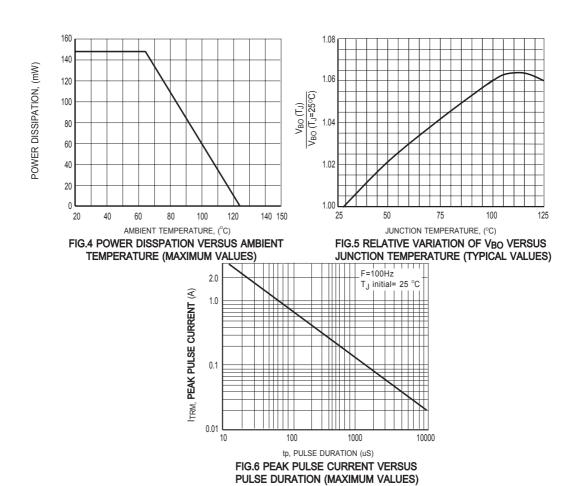


FIG.3 Test circuit see Fig.2 Adjust R for Ip=0.5A



RATING AND CHARACTERISTICS CURVES (DB3)



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