

TRIGGER DIODES

DB3S

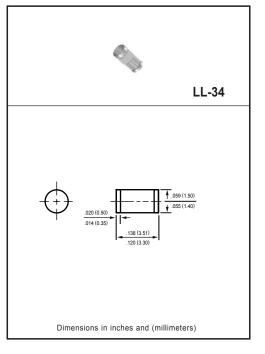
FEATURES

* VBO: 32V/34V/40V VERSIONS

* Low Breakover Current

DESCRIPTION

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



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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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	ITRM	2	А
Power Dissipation (@ TA=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
		DB3S-1		DB3S-2		
Breakover Voltage(Forward and Reverse)	V _{BO}	Min	Max	Min	Max	Volts
at IBO,C=22nF**		30	34	28	36	10110
Maximum Breakover Voltage Symmetry delta VBo=+VBO-+VBO+ C=22nF	delta V _{BO}	+/-2				
Minimum Dynamic Breakover Voltage delta I=IB0 to IF=10mA (see Fig3)	delta V+/-	5				
Minimum Output Voltage* (see Fig 2)	Vo	5				Volts
Peak Breakover Current at Breakorver Voltage* C=22nF**	I _{BO}	25		100		uA
Rise Time* (see Fig3)	tr	1.5				
Leakage Current* VB=0.5VB0 max (see Fig1)	I _B	10				uA
DTES: 1. *Electrical characteristic applicable in both forward and reverse derections.						2007-1

2.**Connected in parallel with the devices.

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

RATING AND CHARACTERISTICS CURVES (DB3S)

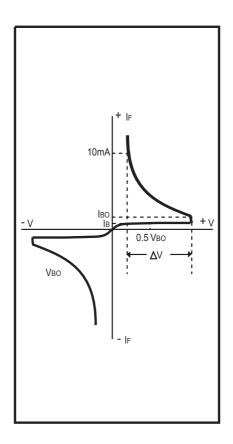


FIG.1 Current-voltage characteristics



-Œ

0.1uF

FIG.2 Test circuit for output voltage

lp

10kΩ 500kΩ

90 %-

0

220V 50Hz

> ~ 0

₩

D.U.T

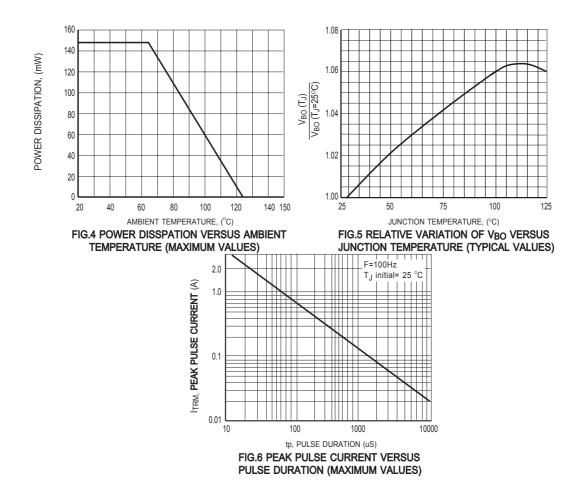
Vo

R = 20 Ω

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







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