

# **Small Signal Product**

ROHS

# 150mW Bi-directional Trigger Diode

## FEATURES

- Designed for through-hole device type mounting
- Hermetically sealed glass
- High reliability glass passivation insuring parameter stability and protection against junction contamination
- All external surfaces are corrosion resistant and terminals are readily solderable

#### **MECHANICAL DATA**

- Case: DO-35 Solder Hot Dip Tin (Sn) lead finish
- High temperature soldering guaranteed: 260°C/10s
- Weight: 0.1255 mg (approximately)
- Terminal: Pure tin plated, lead free,
- solderable per MIL-STD-202, method 208 guaranteed
- Pb free and RoHS compliant

DO-35 Axial Lead

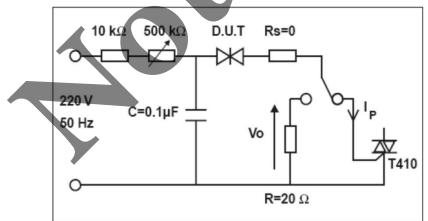
Hermetically Sealed Glass

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T <sub>A</sub> =25°C unless otherwise noted)						
PARAMETER	SYMBOL	VALUE	UNIT			
Repetitive Peak Forward Current Pulse Width = 20µs	I <sub>FRM</sub>	2	А			
Power Dissipation	P <sub>D</sub>	150	mW			
Thermal Resistance (Junction to Ambient) (Note)	R <sub>θJA</sub>	400	°C/W			
Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	- 40 to + 125	°C			

Notes: Valid provided that electrodes are kept at ambient temperature

PARAMET	SYMBOL	MIN	TYP	MAX	TEST CONDITION	UNIT	
Brook Over Veltage	DB3	M	28	32	36	C=22nF	V
Break-Over Voltage	DB3TG	V <sub>BO</sub>	30	32	34	0=2211F	v
Break-Over Voltage Symmetry	DB3	+ / -V <sub>BO</sub>			±3	C=22nF	V
Break-Over voltage Symmetry	DB3TG	+ / - v <sub>BO</sub>			±2	C=22IIF	
Dynamic Breakdown Voltage	DB3	$^{\wedge}V$	5			I <sub>BO</sub> to I <sub>F</sub> =10mA	V
Dynamic Breakdown Voltage	DB3TG		9				
Output Voltage		Vo	5			(Note)	V
Leakage Current		I <sub>B</sub>			10	$V_B = 0.5 V_{BO} (Max)$	μA
Break-Over Current	DB3				100	C=22nF	
	DB3TG	I <sub>BO</sub>	-		15	0=2211F	μA

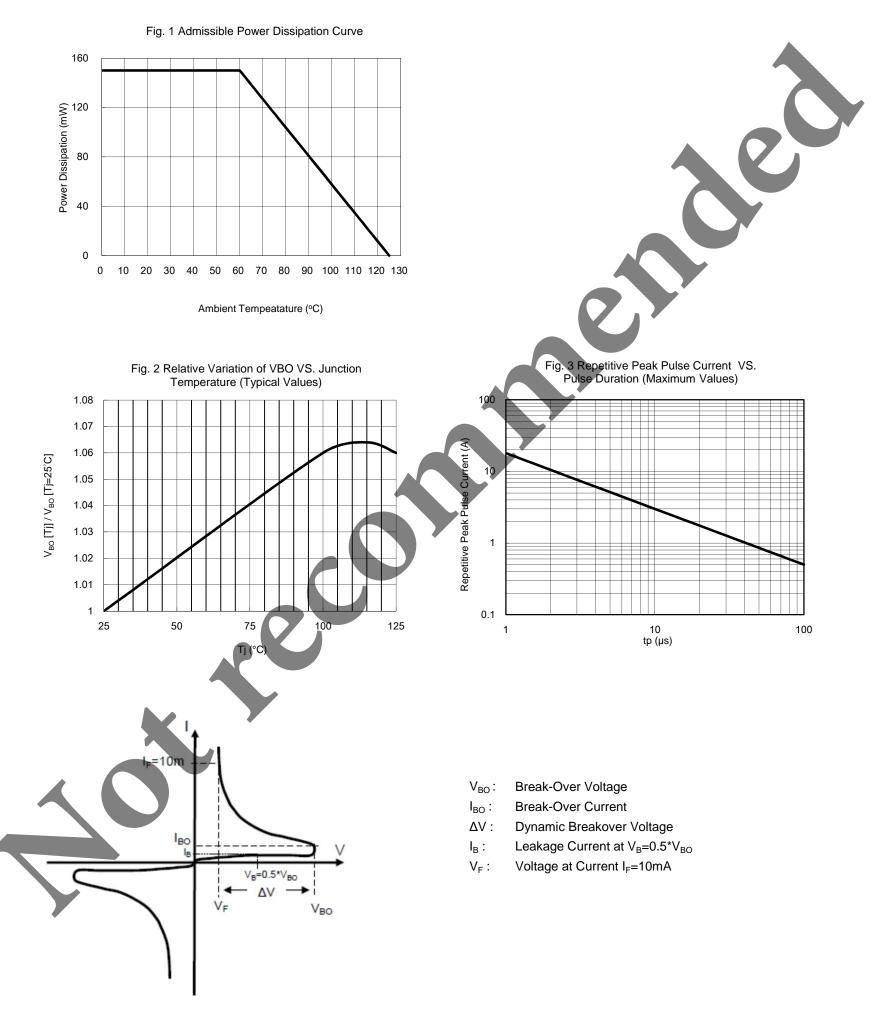
Notes: Test Circuit





#### **RATINGS AND CHARACTERISTICS CURVES**

(T<sub>A</sub>=25°C unless otherwise noted)





Taiwan Semiconductor

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ORDERING INFORMATION								
PART NO.	MANUFACTURE CODE (Note)	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING	MARKING		
DB3		RI	G	DO-35	5K / 10" Reel	DB3		
DB3TG		RI	G	DO-35	5K / 10" Reel	DB3TG		

Note: Indicator of manufacturing site for manufacture special control, if empty means no special control requirement

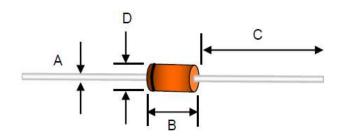
PREFERRED P/N	PART NO.	MANUFACTURE CODE	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
DB3 RIG	DB3		RI	G	Green compound
DB3-N0 RIG	DB3	NO	RI	G	Green compound



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### PACKAGE OUTLINE DIMENSIONS

DO-35



		Unit (mm)		Unit	(inch)
С	DIM.	Min	Max	Min	Max
$\longleftrightarrow$	А	0.34	0.60	0.013	0.024
	В	2.90	5.08	0.114	0.200
	С	25.40	38.10	1.000	1.500
	D	1.30	2.28	0.051	0.090



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