

TRIGGER DIODES

FEATURES

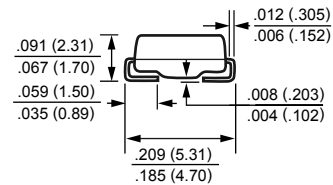
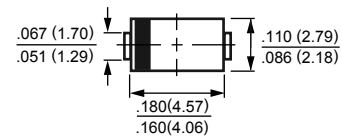
- * V_{BO} : 32V/34V/40V VERSIONS
- * Low Breakover Current

DESCRIPTION

- * Molded plastic-JEDEC DO214AC case
- * Built-in strain relief, ideal for Automated pick/place assembly
- * Weight: 0.064 grams



DO214AC(SMA)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

RATING	SYMBOL	VALUE	UNITS
Repetitive Peak On-State Current $t_p=20\mu\text{s}, F=100\text{Hz}$	I_{TRM}	2	A
Power Dissipation (@ $T_A=50^\circ\text{C}$)	P	150	mW
Derate Above $+50^\circ\text{C}$		4.0	mW/ $^\circ\text{C}$
Storage Temperature Range	T_{STG}	-40 to + 125	$^\circ\text{C}$
Junction Temperature	T_J	125	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

RATING	SYMBOL	VALUE				UNITS
		DB3W-1		DB3W-2		
Breakover Voltage(Forward and Reverse) at I _{BO} ,C=22nF**	V _{BO}	Min	Max	Min	Max	Volts
		30	34	28	36	
Maximum Breakover Voltage Symmetry delta V _{BO} = +V _{BO} - V _{BO} C=22nF	delta V _{BO}	+/-2				Volts
Minimum Dynamic Breakover Voltage delta I=I _{BO} to I _F =10mA (see Fig3)	delta V+/-	5				Volts
Minimum Output Voltage* (see Fig 2)	V _O	5				Volts
Peak Breakover Current at Breakover Voltage* C=22nF**	I _{BO}	25		100		uA
Rise Time* (see Fig3)	t _r	1.5				uS
Leakage Current* V _B =0.5V _{BO} max (see Fig1)	I _B	10				uA

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

2.**Connected in parallel with the devices.

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

2009-03

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RATING AND CHARACTERISTICS CURVES (DB3W)

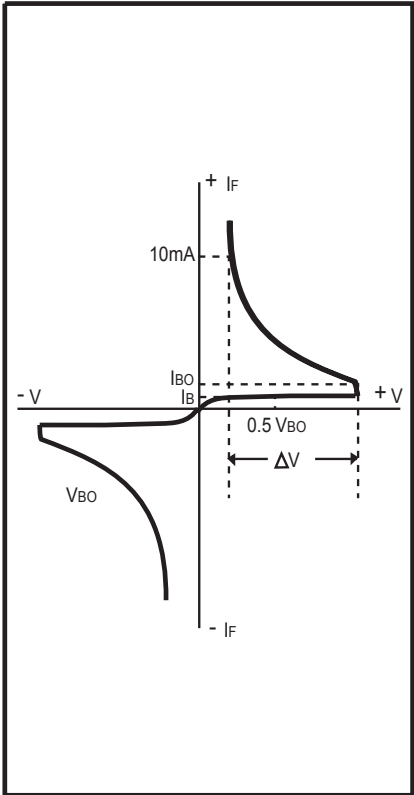


FIG.1 Current-voltage characteristics

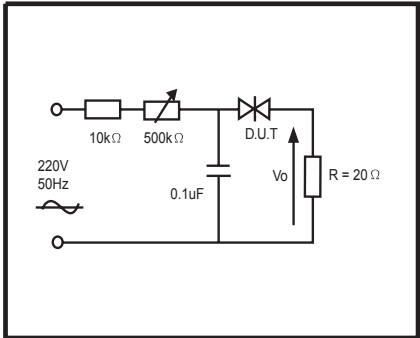


FIG.2 Test circuit for output voltage

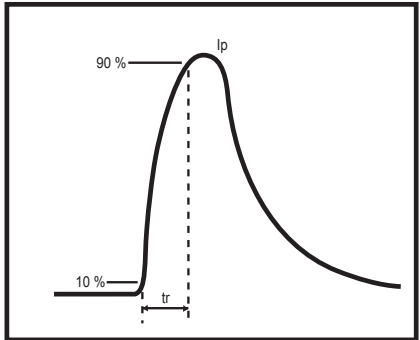


FIG.3 Test circuit see Fig.2
Adjust R for $I_p=0.5A$

RATING AND CHARACTERISTICS CURVES (DB3W)

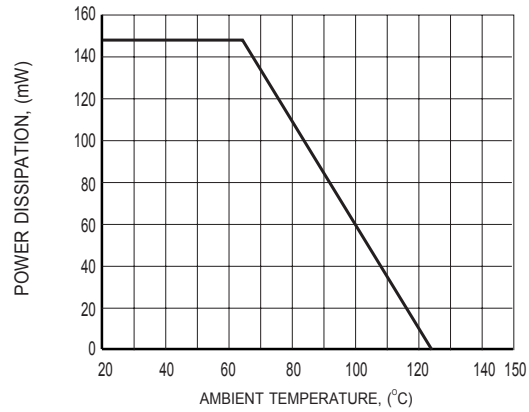


FIG.4 POWER DISSIPATION VERSUS AMBIENT TEMPERATURE (MAXIMUM VALUES)

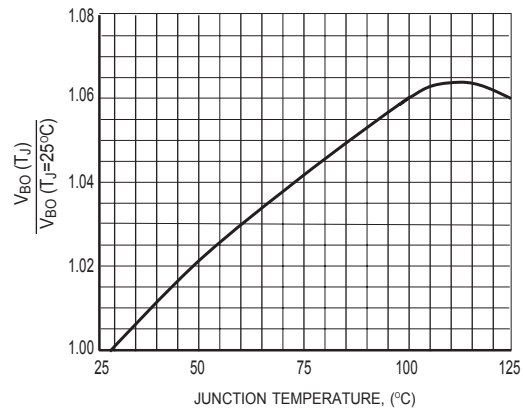


FIG.5 RELATIVE VARIATION OF V_{BO} VERSUS JUNCTION TEMPERATURE (TYPICAL VALUES)

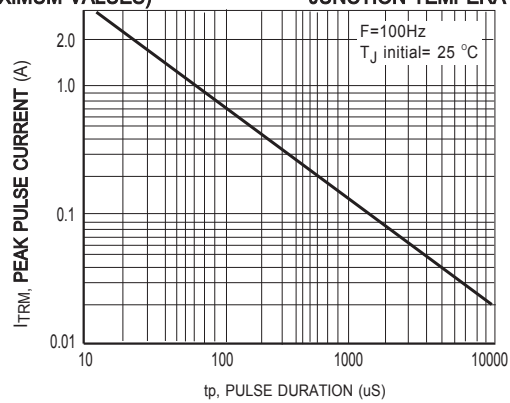
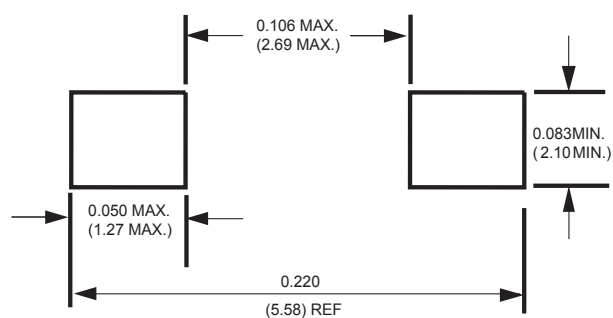


FIG.6 PEAK PULSE CURRENT VERSUS PULSE DURATION (MAXIMUM VALUES)

Mounting Pad Layout



Dimensions in inches and (millimeters)

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