

TRIGGER DIODES

FEATURES

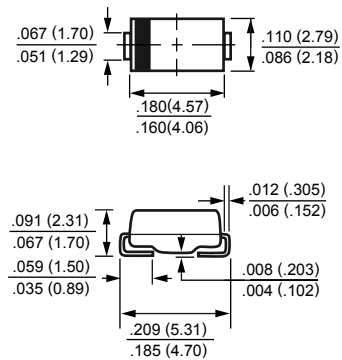
- * V_{BO}: 32V/34V/40V VERSIONS
- * Low Breakover Current

DESCRIPTION

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



DO214AC(SMA)



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

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

ELECTRICAL CHARACTERISTICS (At T_A = 25°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 30	Max 34	Min 28	Max 36	Volts
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)".

RATING AND CHARACTERISTICS CURVES (DB3W)



FIG.1 Current-voltage characteristics

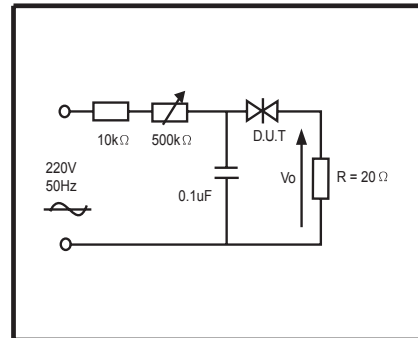


FIG.2 Test circuit for output voltage



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

RATING AND CHARACTERISTICS CURVES (DB3W)

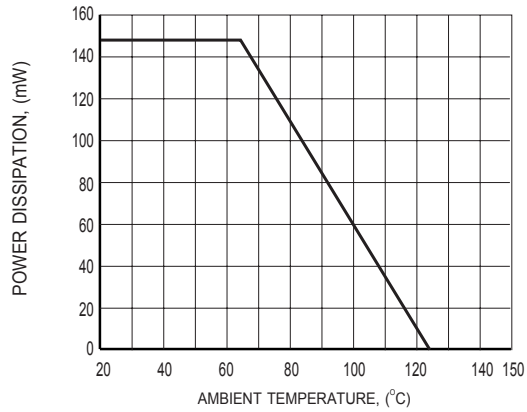


FIG.4 POWER DISSIPATION VERSUS AMBIENT TEMPERATURE (MAXIMUM VALUES)

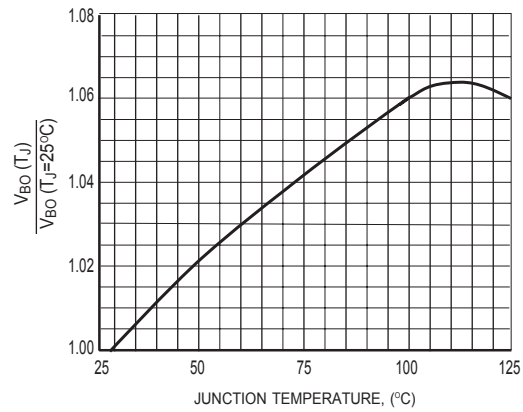


FIG.5 RELATIVE VARIATION OF V_{BO} VERSUS JUNCTION TEMPERATURE (TYPICAL VALUES)

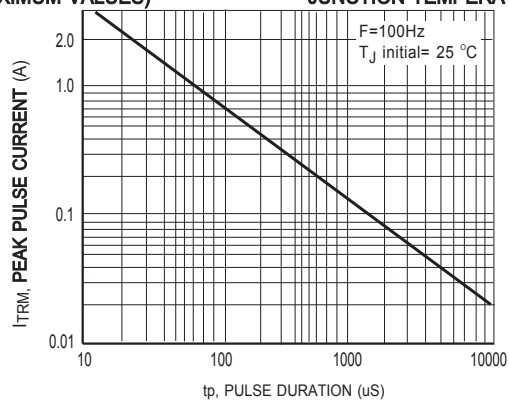


FIG.6 PEAK PULSE CURRENT VERSUS PULSE DURATION (MAXIMUM VALUES)

Mounting Pad Layout



Dimensions in inches and (millimeters)

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