

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

BY296 THRU BY299

FEATURES

- * Fast switching
- * Low Iwakage
- * Low forward voltage drop
- * High current capability
- * High current surge
- * High reliability

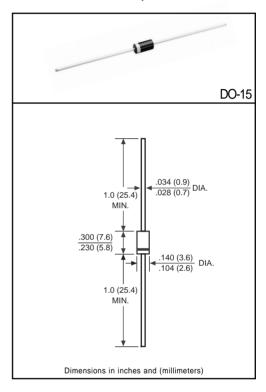
MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rated flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.38 gram approx.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

For capacitive load, derate current by 20%.



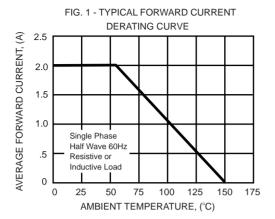
	SYMBOL	BY296	BY297	BY298	BY299	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	100	200	400	800	Volts
Maximum RMS Voltage	VRMS	70	140	280	560	Volts
Maximum DC Blocking Voltage	VDC	100	200	400	800	Volts
Maximum Average Forward Rectified Current at TA = 55°C	lo	2.0				Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	70				Amps
Maximum Instantaneous Forward Voltage at 2.0A DC	VF	1.3				Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage TA=25°C	IR 5.0					— μAmps
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at T L = 55°C						
Maximum Reverse Recovery Time (Note 1)	trr	150		500	nSec	
Typical Junction Capacitance (Note 2)	CJ	40				pF
Operating and Storage Temperature Range	TJ, TSTG	-65 to +150				°C

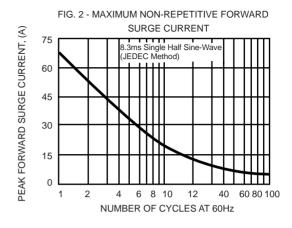
NOTES: 1. Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A

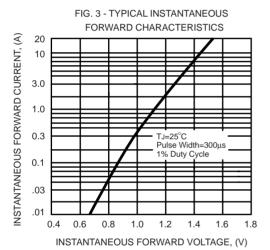
2. Measured at 1MHz and applied reverse voltage of 4.0 volts

REV-3,MAR,2017 1 www.dccomponents.com

RATING AND CHARACTERISTIC CURVES (BY296 THRU BY299)







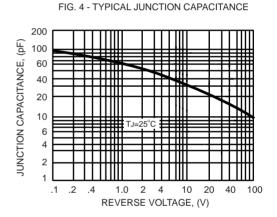
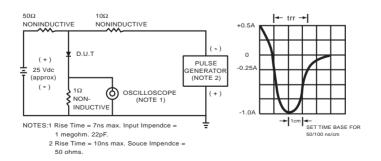


FIG. 5 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARAC TERISTIC



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