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DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

THRU

BY296

BY299

TECHNICAL SPECIFICATIONS OF FAST RECOVERY RECTIFIER

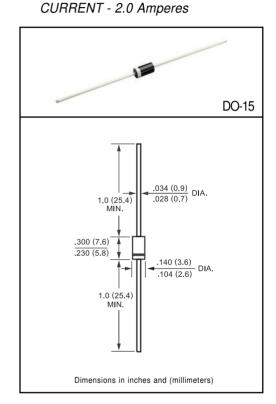
VOLTAGE RANGE - 100 to 800 Volts

FEATURES

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

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Mounting position: Any
- * Weight: 0.38 gram



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 = 75°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	5.0					uAmps
Maximum Full Load Reverse Current Full Cycle Average, .375*(9.5mm) lead length at T L = 55°C	IR	IR 100			uAmps	
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				٥C

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

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











RATING AND CHARACTERISTIC CURVES (BY296 THRU BY299)

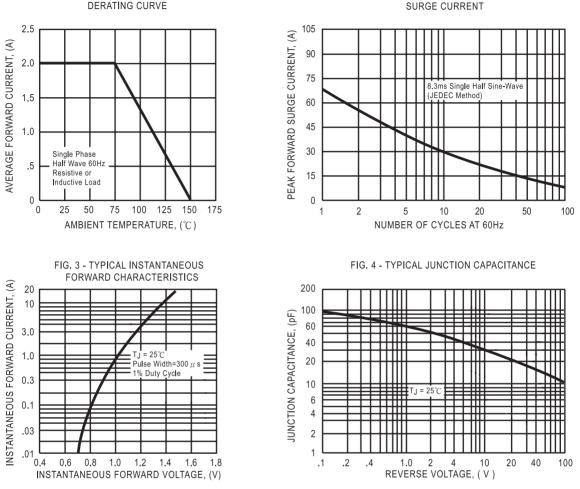


FIG. 1 - TYPICAL FORWARD CURRENT FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD DERATING CURVE FORWARD SURGE CURRENT



