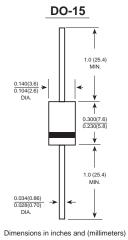
BY296 THRU BY299

FAST RECOVERY RECTIFIERS

Reverse Voltage - 100 to 800 Volts Forward Current - 2.0 Amperes



FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guarantéed: 260°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-15 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.014 ounce, 0.40 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	BY296	BY297	BY298	BY299	UNITS
Maximum repetitive 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 0.375"(9.5mm) lead length at Ta=75°C	l(AV)	2.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	lfsm	70.0				Amps
Maximum instantaneous forward voltage at 2.0A	VF	1.3				Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	lR	5.0 100.0				μА
Maximum reverse recovery time (NOTE 1)	trr	500				ns
Typical junction capacitance (NOTE 2)	Cı	40.0				pF
Typical thermal resistance (NOTE 3)	RθJA	40.0				°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 to +150				°C

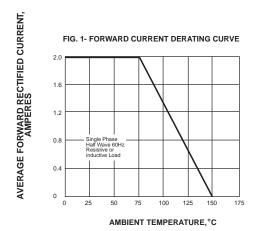
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

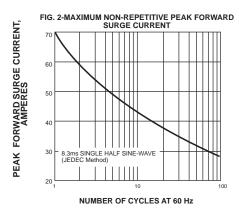
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

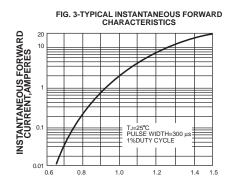
3.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

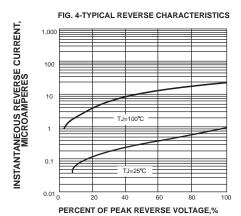


RATINGS AND CHARACTERISTIC CURVES BY296 THRU BY299

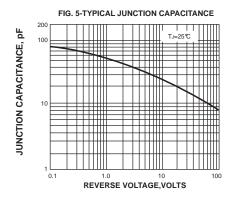


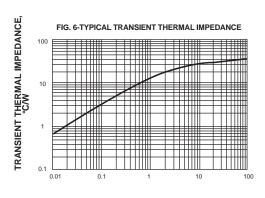






INSTANTANEOUS FORWARD VOLTAGE, VOLTS





t,PULSE DURATION,sec.

