



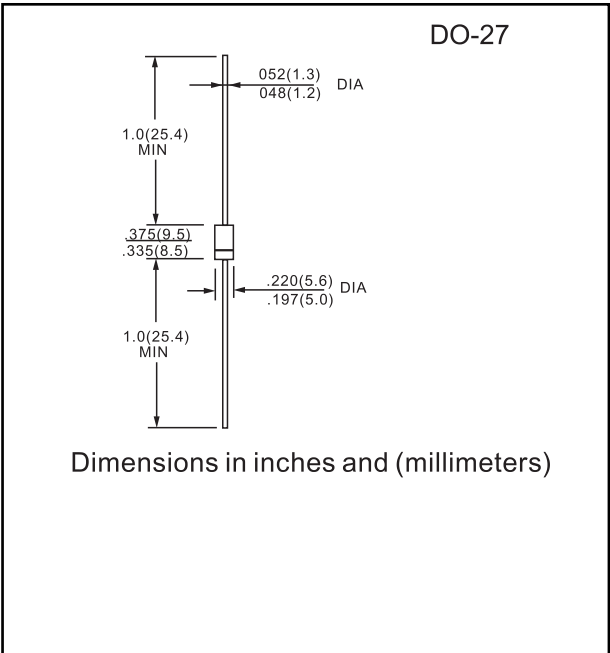
BY296 THRU BY299
100V-800V
2.0A

FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Fast switching for high efficiency

MECHANICAL DATA :

- * Case : DO-201AD Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 1.16 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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%.

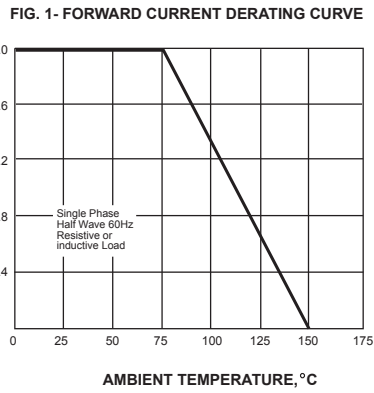
RATING	SYMBOL	BY296	BY297	BY298	BY299	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	100	200	400	800	V
Maximum RMS Voltage	VRMS	70	140	280	560	V
Maximum DC Blocking Voltage	VDC	100	200	400	800	V
Maximum Average Forward Current 0.375"(9.5mm) Lead Length Ta = 50 °C	IF(AV)	2.0				A
Peak Forward Surge Current, 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	IFSM	70				A
Maximum Peak Forward Voltage at IF = 2.0 Amps.	VF	1.3				V
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta = 100 °C	IR	10				µA
	IR(H)	500				µA
Maximum Reverse Recovery Time (Note 1)	Trr	250				ns
Typical Junction Capacitance (Note 2)	CJ	28				pf
Junction Temperature Range	TJ	- 50 to + 125				°C
Storage Temperature Range	TSTG	- 50 to + 150				°C

Notes :

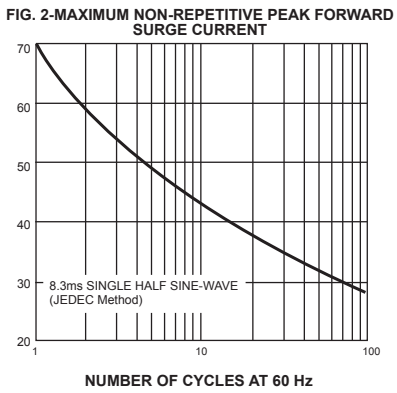
(1) Reverse Recovery Test Conditions : IF = 0.5 A, IR = 1.0 A, Irr = 0.25 A.
(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Vdc



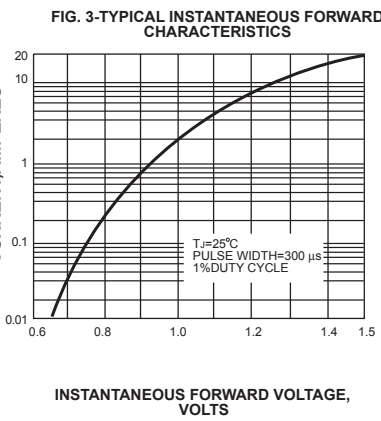
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES



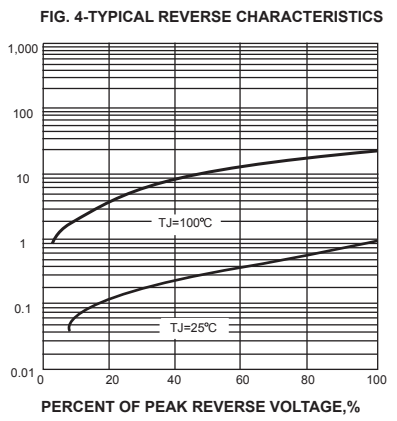
PEAK FORWARD SURGE CURRENT,
AMPERES



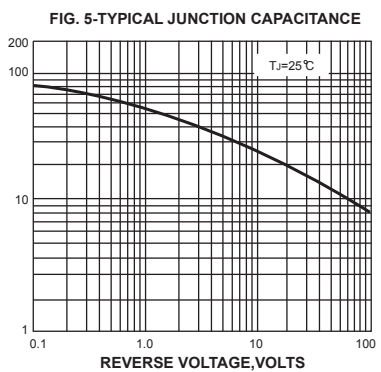
INSTANTANEOUS FORWARD CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT,
MICROAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE,
°C/W

