BYV28-50 THRU BYV28-200

GLASS PASSIVATED FAST EFFICIENT RECTIFIER

Reverse Voltage - 50 to 200 Volts

Forward Current - 3.5 Amperes

FEATURES

- High temperature metallurgically bonded construction
- Glass passivated cavity-free junction
- Superfast recovery time for high efficiency
- Low forward voltage, high current capability
- Capable of meeting environmental standards of MIL-S-19500
- Hermetically sealed package
- Low leakage current
- High surge capability

 High temperature soldering guaranteed: 350°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: Solid glass body Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight: 0.037 ounce, 1.04 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	BYV28-50	BYV28-100	BYV28-150	BYV28-200	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	150	200	Volts
Maximum RMS voltage	Vrms	35	70	105	140	Volts
Maximum DC blocking voltage	VDC	50	100	150	200	Volts
Minimum reverse breakdown voltage at 100µA	V(BR)	55	110	165	220	Volts
Maximum average forward rectified current $0.375"$ (9.5mm) lead length at TL=85°C	I(AV)	3.5				Amps
Peak forward surge current 10ms single half sine-wave superimposed on rated load (JEDEC Method) at TJ=175°C	IFSM	90.0				Amps
Maximum instantaneous forwardTJ=25°Cvoltage at 3.5ATJ=175°C	VF	1.1 0.89			Volts	
Maximum DC reverse currentTA=25°Cat rated DC blocking voltageTA=165°C	IR	1.0 150.0				μA
Maximum reverse recovery time (NOTE 1)	trr	30.0			ns	
Typical junction capacitance (NOTE 2)	CJ	100.0				pF
Typical thermal resistance (NOTE 3, 4)	R⊝ja R⊖jl	55.0 20.0				°C/W
Operating junction and storage temperature range	TJ, TSTG	-65 to +175				°C

NOTES:

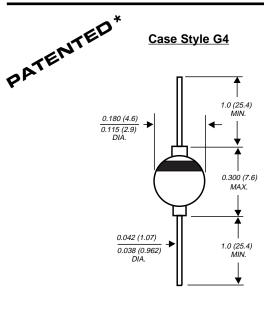
(1) Reverse recovery test conditions: IF=0.5A, IR=1.0A, Irr=0.25A

(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

(3) Thermal resistance from junction to lead at 0.375" (9.5mm) lead length with both leads attached to heatsinks

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

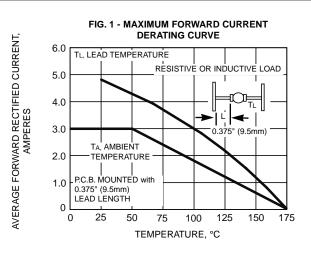




Dimensions in inches and (millimeters)

* Brazed-lead assembly is covered by Patent No. 3,930,306

RATINGS AND CHARACTERISTIC CURVES BYV28-50 THRU BYV28-200



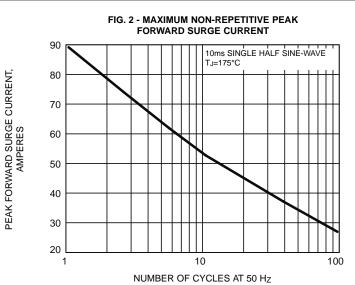
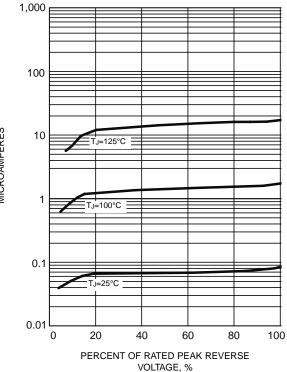
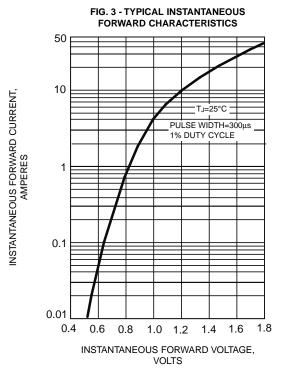
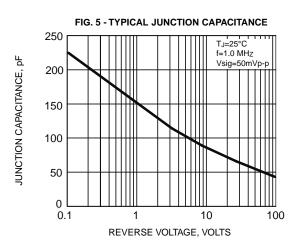


FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS







INSTANTANEOUS REVERSE LEAKAGE CURRENT, MICROAMPERES

