BYV28-1GE THRU BYV28-6GE

GLASS PASSIVATED JUNCTION ULTRAFAST EFFICIENT SILICON RECTIFIER VOLTAGE:600V CURRENT:3.5A



FEATURE DO-201AD Plastic package has Underwriters Laboratories Flammability Classification 94V-0 • Ideally suited for use in very high frequency switching power supplies, inverters and as free wheeling diodes • Ultra fast recovery time for high efficiency • Excellent high temperature switching Glass passivated junction • High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length, 0.210(5.3) 0.190(4.8) **MECHANICAL DATA** Case: JEDEC DO-201AD molded plastic body over passivated chip Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any 0.052(1.32) Weight: 0.045 oz., 1.2 g 0.048(1.22)

1.0(25.4) MIN 0.375(9.50) 0.235(7.20) 1.0(25.4) MIN DIA Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	BYV28-1GE	BYV28-2GE	BYV28-4GE	BYV28-6GE	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	100	200	400	600	V
Maximum RMS Voltage	Vrms	70	140	280	420	V
Maximum DC blocking Voltage	Vdc	100	200	400	600	V
Maximum Average Forward Rectified Ta=25°C	lf(av)	3.5				А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	90				А
Maximum Forward Voltage at rated Forward Current and 25°C IF=3.5A	Vf	1.	02	1.05	1.25	V
Maximum Reverse Recovery Time (Note 1)	Trr	25 50		nS		
Typical thermal resistance junction to ambient (Note 2)	Rθja	72			°C/W	
Maximum DC Reverse Current $T_J = 25^{\circ}C$ at rated DC blocking voltage $T_J = 150^{\circ}C$	lr	5 150			μΑ μΑ	
Storage and Operating Temperature Range	Tstg, Tj	-55 to +150				°C

Note:

1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

2.Device mounted on an epoxy-glass printed-circuit board, 1.5 mm thick; thickness of Cu-layer 40 µm, see Fig.6 For more information please refer to the "General Part of associated Handbook".

RATINGS AND CHARACTERISTIC CURVES BYV28-1GE THRU BYV28-6GE

Figure 1. Max. Reverse Power Dissipation vs. Junction



Figure 3. Max. Average Forward Current vs. Ambient Temperature



Figure 5. Typ. Diode Capacitance vs. Reverse Voltage



Figure 2. Max. Reverse Current vs. Junction Temperature



Figure 4. Max. Forward Current vs. Forward Voltage





