## BYV27-1GE THRU BYV27-2GE

# GLASS PASSIVATED JUNCTION ULTRAFAST EFFICIENT SILICON RECTIFIER VOLTAGE: 100 TO 200V CURRENT: 2.0A



#### **FEATURE**

Low power loss
High surge capability
Glass passivated chip junction
Ultra-fast recovery time for high efficiency
High temperature soldering guaranteed
250°C/10sec/0.375″ lead length at 5 lbs tension

### **MECHANICAL DATA**

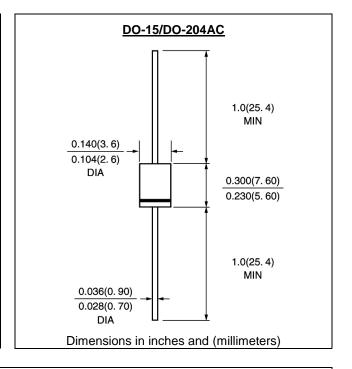
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

Case: Molded with UL-94 Class V-0 recognized Flame

Retardant Epoxy

Polarity: color band denotes cathode

Mounting position: any



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

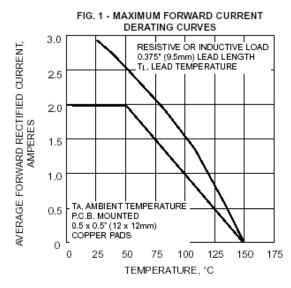
		SYMBOL	BYV27-1GE	BYV27-2GE	units
Maximum Recurrent Peak Reverse Voltage		Vrrm	100	200	V
Maximum RMS Voltage		Vrms	70	140	V
Maximum DC blocking Voltage		Vdc	100	200	V
Maximum Average Forward Rectified Current 3/8" lead length at Ta =55°C		If(av)	2.0		Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		Ifsm	50.0		Α
Maximum Forward Voltage at Forward current 2.0A Peak		Vf	0.98		V
non-repetitive peak reverse avalanche energy	(Note 1)	Ersm	20		mJ
Maximum DC Reverse Current Ta =25°C		5.0 150.0		)	μА
at rated DC blocking voltage Ta =125℃				.0	μА
Maximum Reverse Recovery Time (	(Note 2)	Trr	25		nS
Typical Junction Capacitance	(Note 3)	Cj	15		pF
Typical Thermal Resistance	(Note 4)	R(ja)	45		°C/W
Storage and Operating Junction Temperature		Tstg,Tj	-55 to +150		°C

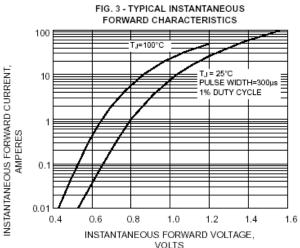
Note: 1.L = 120 mH; Tj = Tj max prior to surge; inductive load switched off.

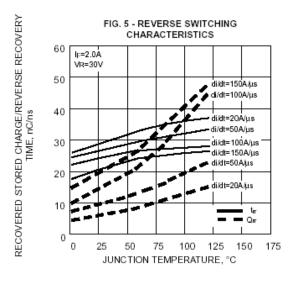
- 2.Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 3.Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 4. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

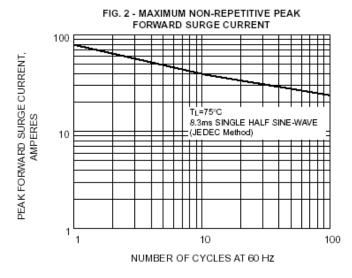
Rev.A1 www.gulfsemi.com

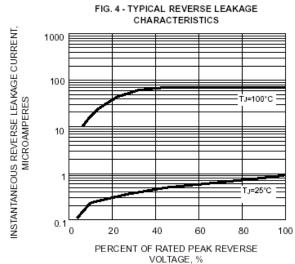
#### RATINGS AND CHARACTERISTIC CURVES BYV27-1GE THRU BYV27-2GE

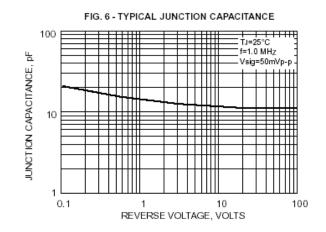












Rev.A1 www.gulfsemi.com