BYV27-400

GLASS PASSIVATED JUNCTION ULTRAFAST EFFICIENT SILICON RECTIFIER

VOLTAGE: 400V 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

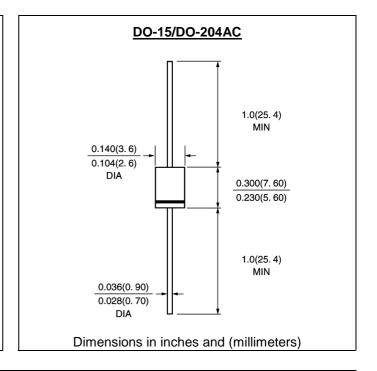
MIL-STD 202E, method 208C

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)

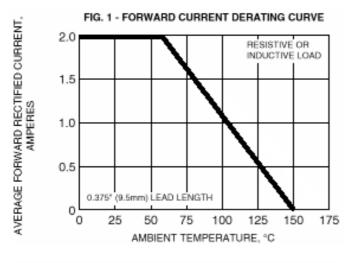
		SYMBOL	BYV27-400	units
Maximum Recurrent Peak Reverse Voltage		Vrrm	400	V
Maximum RMS Voltage		Vrms	280	V
Maximum DC blocking Voltage		Vdc	400	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C		If(av)	2.0	Α
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		lfsm	50.0	Α
Maximum Forward Voltage at Forward current and 25℃		Vf	1.05	V
Non-repetitive peak reverse avalanche energy	(Note 1)	Ersm	20	mJ
Maximum DC Reverse Current at rated DC blocking voltage	Ta =25℃ Ta =125℃	lr	5.0 150.0	μA
Maximum Reverse Recovery Time	(Note 2)	Trr	50	nS
Typical Junction Capacitance	(Note 3)	Cj	50	pF
Typical Thermal Resistance	(Note 4)	Rth(ja)	20	°C/W
Storage and Operating Junction Temperature		Tstg,Tj	-55 to +150	$^{\circ}\!\mathbb{C}$

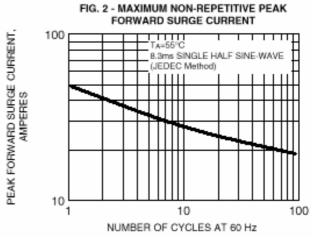
Note:

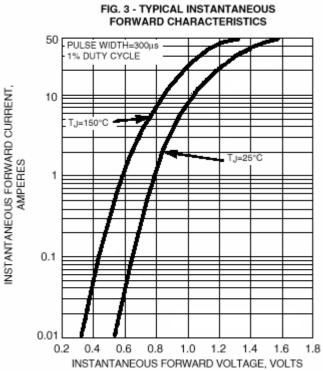
- 1. L = 120 mH; Tj = Tj max prior to surge; inductive load switched off.
- 2. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 4. 4. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

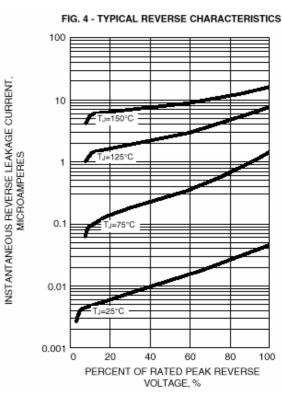
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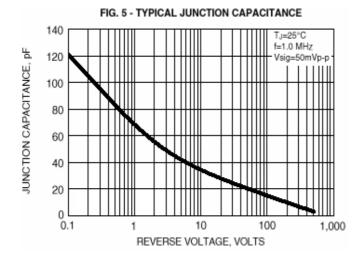
RATINGS AND CHARACTERISTIC CURVES BYV27-400

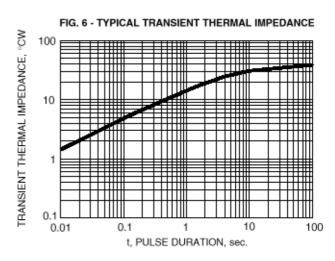












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