

BYD187Z

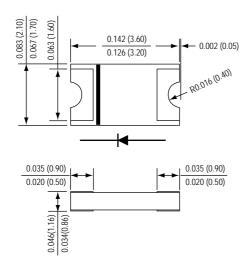
SURFACE MOUNT GLASS PASSIVATED JUNCTION ULTRAFAST EFFICIENT RECTIFIER

Reverse Voltage - 800 Volts

Forward Current - 1.0 Ampere



1206



*Dimensions in inches and (millimeters)





* Equivalent to SOD87, GL1M, SOD123

FEATURES

- * Lead free product
- * Leadless chip form , no lead damage
- * Lead-free solder Joint , No Wire bond & Lead Frame
- * Low profile package
- For surface mounted applications
- Built-in strain relief
- * Low power loss , High efficiency
- * High current capability
- High surge capacity
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0

MECHANICAL DATA

Case: Packed with FRP substrate and epoxy underfilled

Terminals: Pure Tin plated (Lead-Free),

solderable per MIL-STD-750, Method 2026.

Polarity: Cathode Band, Laser marking

Weight: 0.012 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	BYD187Z	UNITS
Maximum repetitive peak reverse voltage	VRRM	800	Volts
Maximum RMS voltage	VRMS	560	Volts
Maximum DC blocking voltage	VDC	800	Volts
Maximum average forward rectified current TL=110°C	l (AV)	1.0	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	IFSM	25	Amps
Maximum instantaneous forward voltage at 1.0 A	VF	2.50	Volts
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=125°C	lR	5 50	uA
Maximum reverse recovery time (NOTE 1)	trr	35	nS
Typical junction capacitance (NOTE 2)	Cı	10	pF
Operating junction and storage temperature range	TJ,TSTG	-65 to +175	°C

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

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

(3) Preliminary draft.

RATINGS AND CHARACTERISTIC CURVES OF BYD187Z

