# ZOWIE

# **ZRGC6MM**

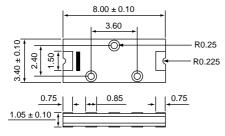
## HIGH VOLTAGE SURFACE MOUNT GLASS PASSIVATED JUNCTION FAST RECOVERY RECTIFIER

Reverse Voltage - 6000 Volts

Forward Current - 0.35 Ampere



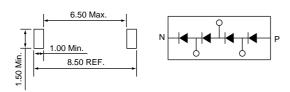
#### 8034



#### **FEATURES**

- \* Halogen-free type
- \* Compliance to RoHS product
- \* Internal structure with GPRC (glass passivated rectifier chip) inside
- \* Leadless chip form, no lead damage
- Lead-free solder Joint, No Wire bond & Lead Frame
- \* Low profile package
- \* For surface mounted applications
- \* Low power loss, High efficiency
- \* High current capability
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0

### **Mounting PAD**



\*Dimensions in millimeters



# **MECHANICAL DATA**

Case: Packed with FRP substrate and epoxy underfilled

Terminals: Pure Tin plated (Lead-Free),

solderable per MIL-STD-750, Method 2026.

Polarity: Color Cathode band marking

Weight: 0.055 gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified.	SYMBOLS	ZRGC6MM	UNITS
Maximum repetitive peak reverse voltage	VRRM	6000	Volts
Maximum RMS voltage	VRMS	4200	Volts
Maximum DC blocking voltage	VDC	6000	Volts
Maximum average forward rectified current TL = 120	I(AV)	0.35	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	IFSM	15	Amps
Maximum instantaneous forward voltage at IF = 0.35A	VF	8	Volts
Maximum DC reverse current at rated DC blocking voltage	lr	10	uA
Maximum reverse recovery time (NOTE 1)	trr	500	nS
Typical junction capacitance (NOTE 2)	Cı	4	pF
Operating junction and storage temperature range	TJ,TSTG	-65 to +175	

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

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

(3) Preliminary draft.

# **RATINGS AND CHARACTERISTIC CURVES**

