



Transys
Electronics
LIMITED

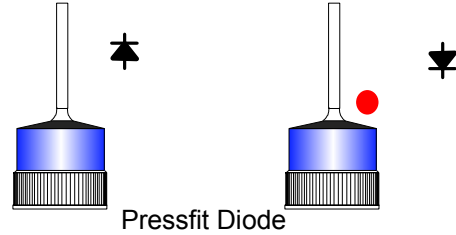
RZ2538C/A - 25 Amp
RZ3538C/A - 35 Amp
RZ5038C/A - 50 Amp
Rectifier/Zener Automotive Alternator Diode

Data Sheet

Features

- * Epi Layer for tight control of parameters
- * Silicon oxide passivation for superior junction protection
- * Visual to Mil Std 750C
- * 100 % Tested
- * Low Reverse Leakage
- * Low Forward Voltage
- * Load Dump Capability

Anode Base Suffix "A" Cathode Base Suffix "C"



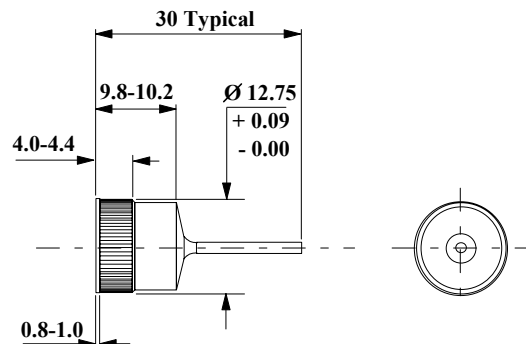
Characteristics at 25° c (Unless stated otherwise)	Maximum Forward Voltage	Reverse Breakdown Voltage	Maximum Reverse Leakage	Maximum Clamping Voltage	Maximum Forward Current @ Ta = 150° c	Non Repetitive Peak Forward Surge Current @ Ta = 150° c
Type Number	V _F Volt	V _{BR} Volt	I _R nA	V _{CL} Volt	I _{F (AVG)} Amp	I _{FSM} Amp
RZ2538C RZ2538A	1.05 @ 75A t = 300µ S < 2% Duty Cycle	38 - 42 @ 100mA	200 @ VR = 31Volt	< 45 @ IR = 2.8 x IF avg 80 µS < 2% duty Cycle	25	400 @ 8.3ms single half wave. (Jedec Method)
RZ3538C RZ3538A	1.05 @ 100A t = 300µ S < 2% Duty Cycle	38 - 42 @ 100mA	200 @ VR = 31Volt	< 45 @ IR = 2.8 x IF avg 80 µS < 2% duty Cycle	35	600 @ 8.3ms single half wave. (Jedec Method)
RZ5038C RZ5038A	1.05 @ 100A t = 300µ S < 2% Duty Cycle	38 - 42 @ 100mA	200 @ VR = 31Volt	< 45 @ IR = 2.8 x IF avg 80 µS < 2% duty Cycle	50	800 @ 8.3ms single half wave. (Jedec Method)

Power cycle requirement.

1. 10,000 cycles
2. I_F = 200% Rated current
3. Temperature rise 150° C
4. Excursion rate 37.5° C/Minute, +/- 5° C/Minute

Maximum Operating Temperature Range -65 to + 200° C
Maximum Storage Temperature Range -65 to + 200° C

Mechanical Dimensions



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