



Glass Passivated Junction Rectifier

SUPERECTIFIER®

DO-204AL (DO-41)

PRIMARY CHARACTERISTICS	
$I_{F(AV)}$	1.0 A
V_{RRM}	50 V to 1000 V
I_{FSM} (8.3 ms sine-wave)	30 A
I_{FSM} (square wave $t_p = 1$ ms)	45 A
I_R	5.0 μ A
V_F	1.1 V
T_J max.	175 °C

TYPICAL APPLICATIONS

For use in general purpose rectification of power supplies, inverters, converters and freewheeling diodes for both consumer and automotive applications.

FEATURES

- € Superectifier structure for high reliability application
- € Cavity-free glass-passivated junction
- € Low forward voltage drop
- € Low leakage current, typical I_R less than 0.1 μ A
- € High forward surge capability
- € Meets environmental standard MIL-S-19500
- € Solder dip 275 °C max. 10 s, per JESD 22-B106
- € AEC-Q101 qualified
- € Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC

RoHS
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MECHANICAL DATA

- Case: DO-204AL, molded epoxy over glass body
Molding compound meets UL 94 V-0 flammability rating
Base P/N-E3 - RoHS compliant, commercial grade
Base P/NHE3 - RoHS compliant, AEC-Q101 qualified
Terminals: Matte tin plated leads, solderable per J-STD-002 and JESD 22-B102
E3 suffix meets JESD 201 class 1A whisker test, HE3 suffix meets JESD 201 class 2 whisker test
Polarity: Color band denotes cathode end

Notes

- (1) JEDEC registered values
- (2) For device using on bridge rectifier application

