

SCHOTTKY RECTIFIER
HIGH EFFICIENCY SERIES

35SGQ045
35 Amp, 45V

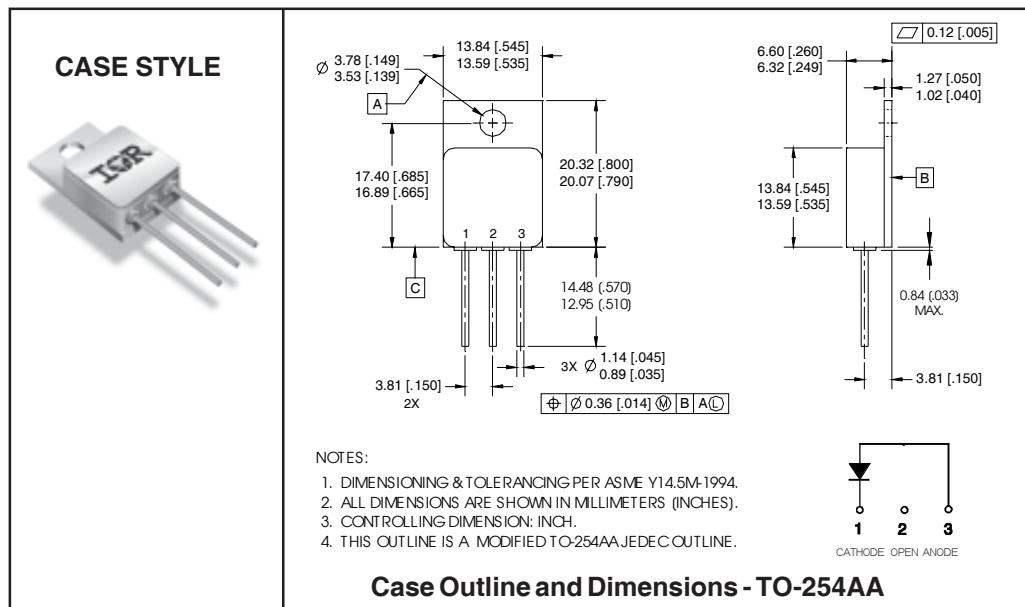
Major Ratings and Characteristics

Characteristics	35SGQ045	Units
I _{F(AV)}	35	A
V _{RRM}	45	V
I _{FSM} @ t _p = 8.3ms half-sine	300	A
V _F @ 35Apk, T _J = 125°C	0.79	V
T _J , T _{stg} Operating and storage	-55 to 150	°C

Description/Features

The 35SGQ045 Schottky rectifier has been expressly designed to meet the rigorous requirements of HiRel environments. It is packaged in the hermetic isolated TO-254AA package. The device's forward voltage drop and reverse leakage current are optimized for the lowest power loss and the highest circuit efficiency for typical high frequency switching power supplies and resonant power converters. Full MIL-PRF-19500 quality conformance testing is available on source control drawings to TX, TXV and S quality levels.

- Hermetically Sealed
- Low Forward Voltage Drop
- High Frequency Operation
- Guard Ring for Enhanced Ruggedness and Long term Reliability
- Lightweight



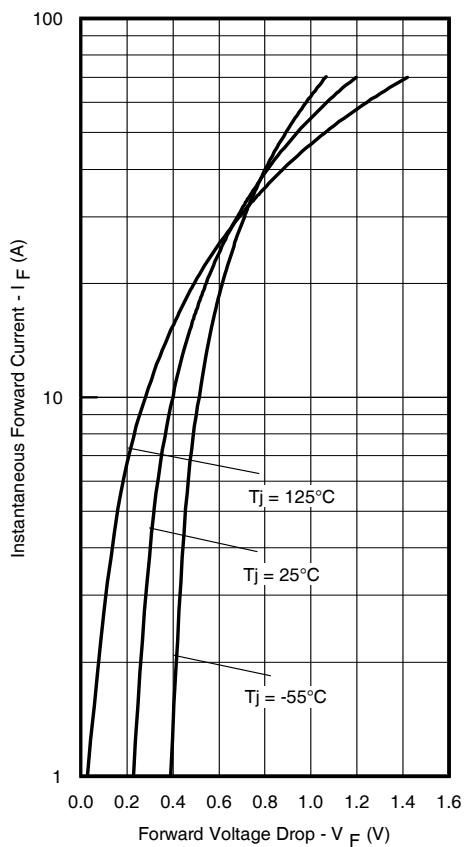


Fig. 1 - Max. Forward Voltage Drop Characteristics

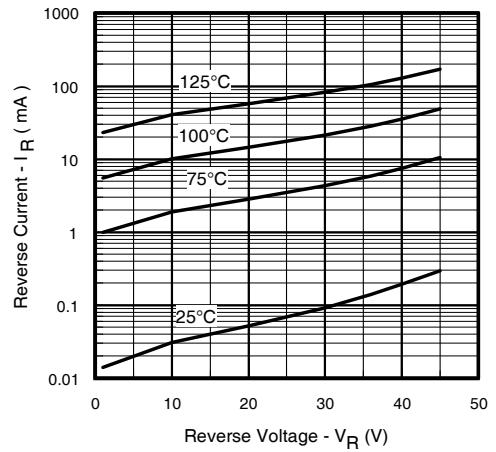


Fig. 2 - Typical Values of Reverse Current Vs. Reverse Voltage

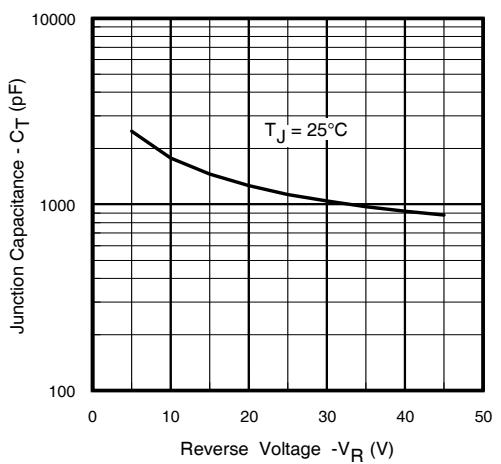
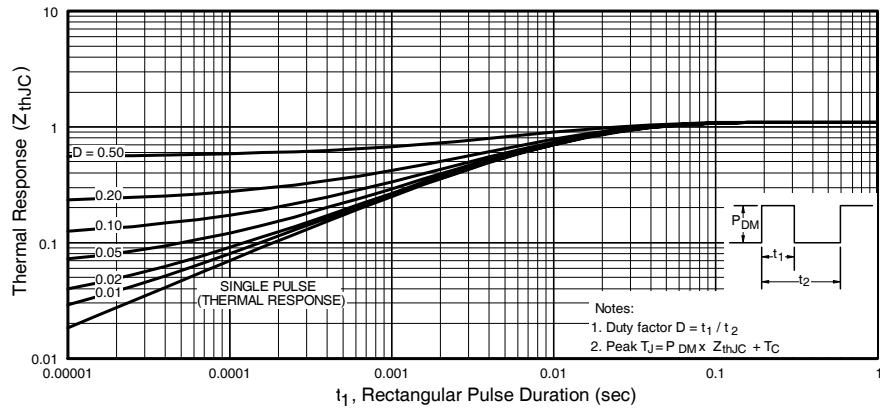
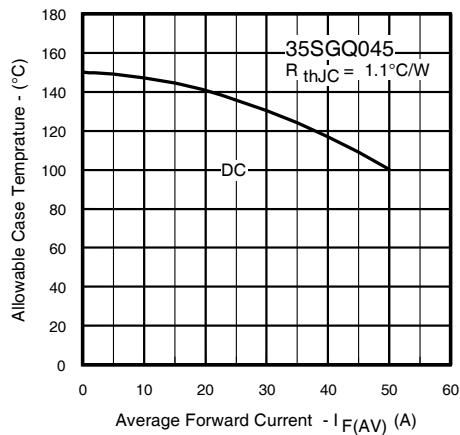


Fig. 3 - Typical Junction Capacitance Vs. Reverse Voltage

Fig. 4 - Max. Thermal Impedance Z_{thJC} CharacteristicsFig. 5 - Max. Allowable Case Temperature Vs.
Average Forward Current
 International
IR Rectifier

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Data and specifications subject to change without notice. 02/2012