

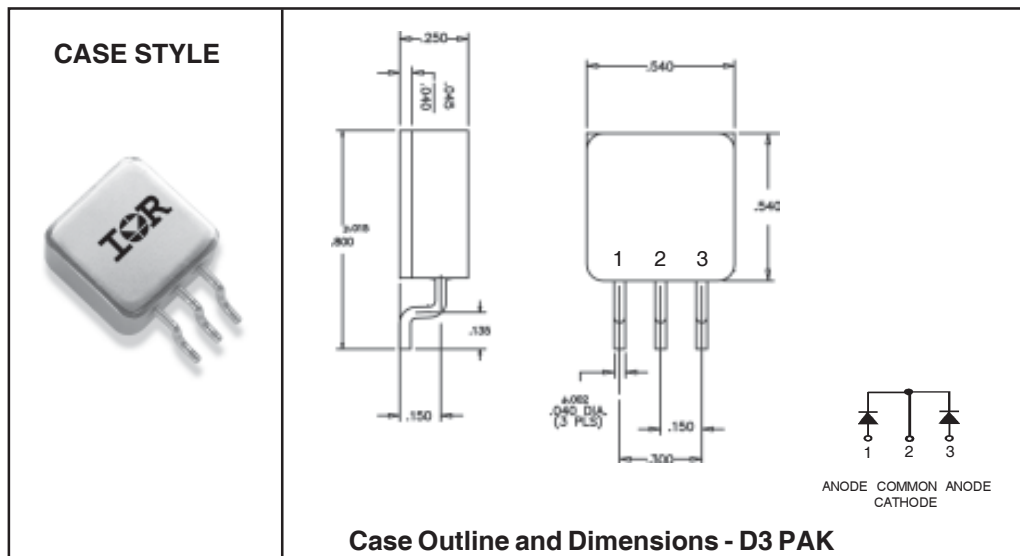
Major Ratings and Characteristics

Characteristics	Limits	Units
$I_{F(AV)}$	35	A
V_{RRM} (Per Leg)	60	V
I_{FSM} @ $t_p = 8.3ms$ half-sine (Per Leg)	400	A
V_F @ 17.5Apk, $T_J = 125^\circ C$ (Per Leg)	0.61	V
T_J, T_{stg} Operating & storage	-55 to 150	$^\circ C$

Description/Features

The 35SCGJQ060 center tap Schottky rectifier has been expressly designed to meet the rigorous requirements of HiRel environments. It is packaged in the hermetic isolated D3 PAK 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
- Center Tap
- Low Forward Voltage Drop
- High Frequency Operation
- Guard Ring for Enhanced Ruggedness and Long Term Reliability
- Lightweight



Voltage Ratings

Part number	35SCGJQ060
V _R Max. DC Reverse Voltage (V) (Per Leg)	60
V _{RWM} Max. Working DC Reverse Voltage (V) (Per Leg)	

Absolute Maximum Ratings

Parameters	Limits	Units	Conditions
I _{F(AV)} Max. Average Forward Current See Fig. 5	35	A	50% duty cycle @ T _C = 113 °C, square waveform
I _{FSM} Max. Peak One Cycle Non - Repetitive Surge Current (Per Leg)	400	A	@ t _p = 8.3 ms half-sine

Electrical Specifications

Parameters	Limits	Units	Conditions
V _{FM} Max. Forward Voltage Drop (Per Leg) See Fig. 1 ①	0.64	V	@ 17.5A T _J = -55°C
	0.82	V	@ 35A
	0.61	V	@ 17.5A T _J = 25°C
	0.86	V	@ 35A
	0.61	V	@ 17.5A T _J = 125°C
I _{RM} Max. Reverse Leakage Current (Per Leg) See Fig. 2 ①	0.3	mA	T _J = 25°C
	40	mA	T _J = 100°C
	180	mA	T _J = 125°C
C _T Max. Junction Capacitance (Per Leg)	1520	pF	V _R = 5V _{DC} (1MHz, 25°C)
L _S Typ. Series Inductance (Per Leg)	7.8	nH	Measured from Cathode lead to Anode lead 6mm (0.025in) from package

Thermal-Mechanical Specifications

Parameters	Limits	Units	Conditions
T _J Max. Junction Temperature Range	-55 to 150	°C	
T _{stg} Max. Storage Temperature Range	-55 to 150	°C	
R _{thJC} Max. Thermal Resistance, Junction to Case (Per Leg)	1.25	°C/W	DC operation See Fig. 4
R _{thJC} Max. Thermal Resistance, Junction to Case (Per Package)	0.63	°C/W	DC operation
wt Weight (Typical)	9.3	g	
Die Size (Typical)	150X180	mils	
Case Style	D3 PAK		

① Pulse Width < 300µs, Duty Cycle < 2%

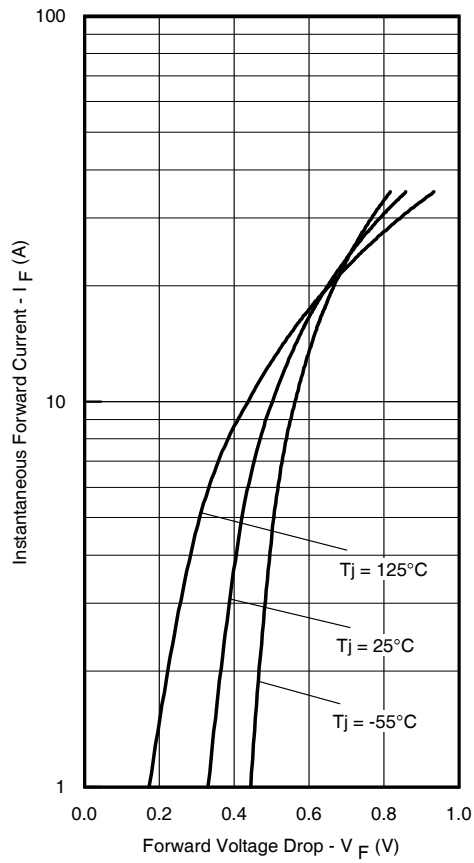


Fig. 1 - Max. Forward Voltage Drop Characteristics (Per Leg)

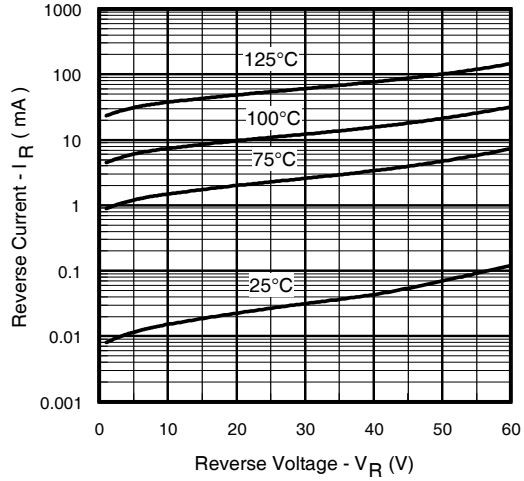


Fig. 2 - Typical Values of Reverse Current Vs. Reverse Voltage (Per Leg)

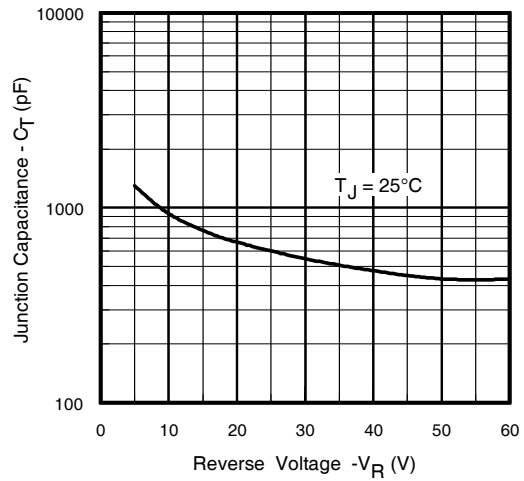


Fig. 3 - Typical Junction Capacitance Vs. Reverse Voltage (Per Leg)

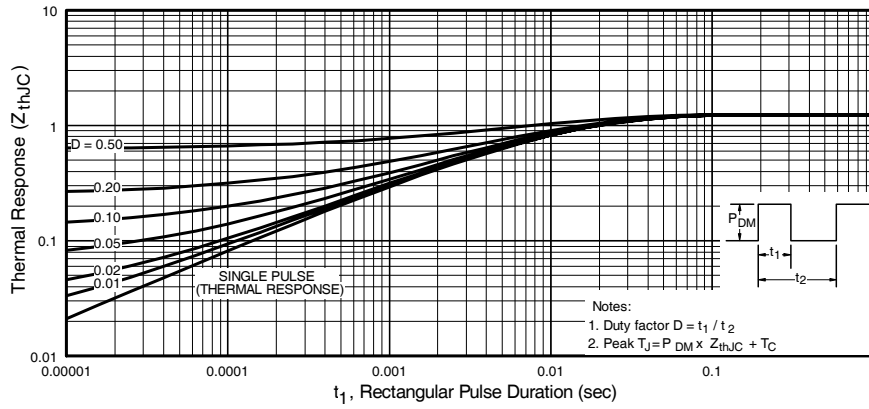


Fig. 4 - Max. Thermal Impedance Z_{thJC} Characteristics (Per Leg)

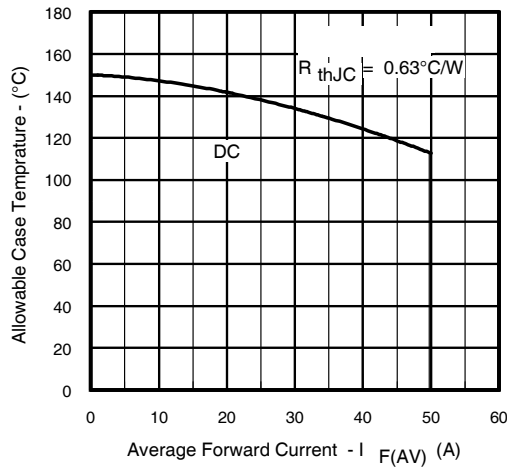


Fig. 5 - Max. Allowable Case Temperature Vs. Average Forward Current

单击下面可查看定价，库存，交付和生命周期等信息

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