Technical Data
Data Sheet 3371, Rev. -

Green Products

MBR350-G/MBR360-G SCHOTTKY RECTIFIER

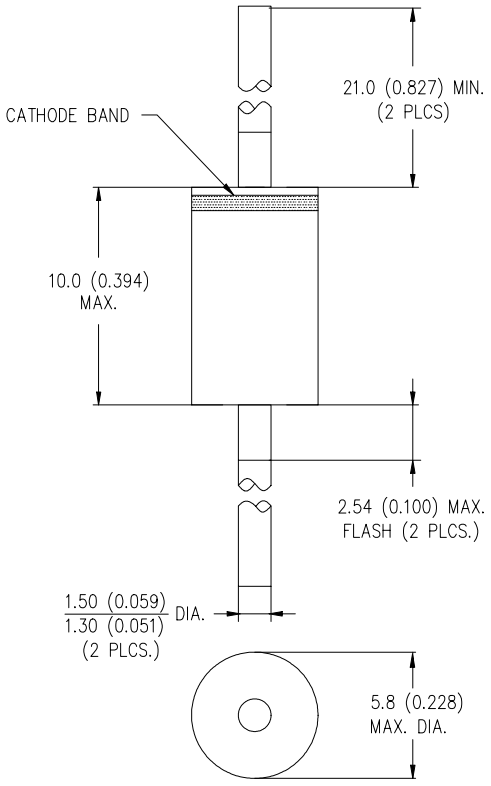
Applications:

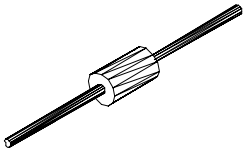
- **Switching power supply • Converters • Free-Wheeling diodes • Reverse battery protection**

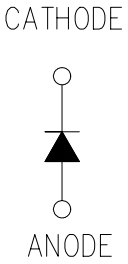
Features:

- **Low profile, axial leaded outline**
- **High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance**
- **Very Low forward voltage drop**
- **High frequency operation**
- **Guard ring for enhanced ruggedness and long term reliability**
- Green Products in Compliance with the RoHS Directive

Mechanical Dimensions: In Inches / mm







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Maximum Ratings:

Characteristics	Symbol	Condition	Max.		Units
Peak Inverse Voltage	V_{RWM}	-	50	(MBR350-G)	V
			60	(MBR360-G)	
Max. Average Forward Current	$I_{F(AV)}$	50% duty cycle @T_C = 50 °C, rectangular wave form	3.0		A
Max. Peak One Cycle Non-Repetitive Surge Current	I_{FSM}	8.3 ms, half Sine pulse	96		A

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop *	V_{F1}	@1.0 A, Pulse, T_J = 25 °C @3.0 A, Pulse, T_J = 25 °C @9.4 A, Pulse, T_J = 25 °C	0.58 0.73 1.06	V
	V_{F2}	@1.0 A, Pulse, T_J = 125 °C @3.0 A, Pulse, T_J = 125 °C @9.4 A, Pulse, T_J = 125 °C	0.49 0.64 0.89	V
Max. Reverse Current *	I_{R1}	@V_R = Rated V_R, Pulse, T_J = 25 °C	0.6	mA
	I_{R2}	@V_R = Rated V_R, Pulse, T_J = 100 °C	8	mA
	I_{R3}	@V_R = Rated V_R, Pulse, T_J = 125 °C	15	mA
Max. Junction Capacitance	C_T	@V_R = 5V, T_C = 25 °C f_{SIG} = 1MHz	190	pF
Typical Series Inductance	L_S	Measured lead to lead 5 mm from package body	9.0	nH
Max. Voltage Rate of Change (Rated V_R)	dv/dt		10,000	V/µs

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

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-40 to +150	°C
Max. Storage Temperature	T_{stg}	-	-40 to +150	°C
Typical Thermal Resistance Junction to Lead	$R_{\theta JL}$	DC operation	30	°C/W
Approximate Weight	wt	-	1.2	g
Case Style	DO-201AD			

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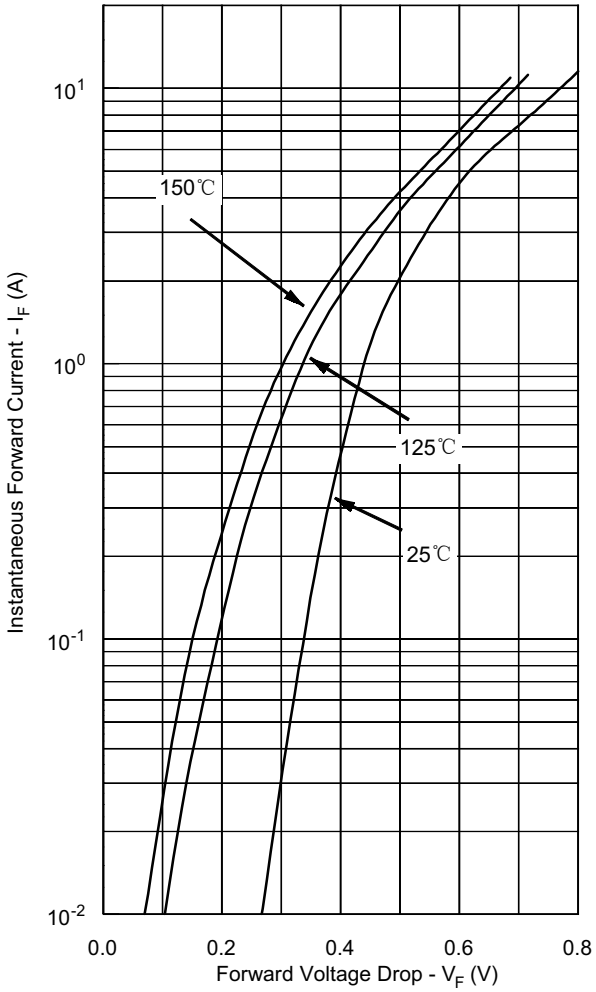
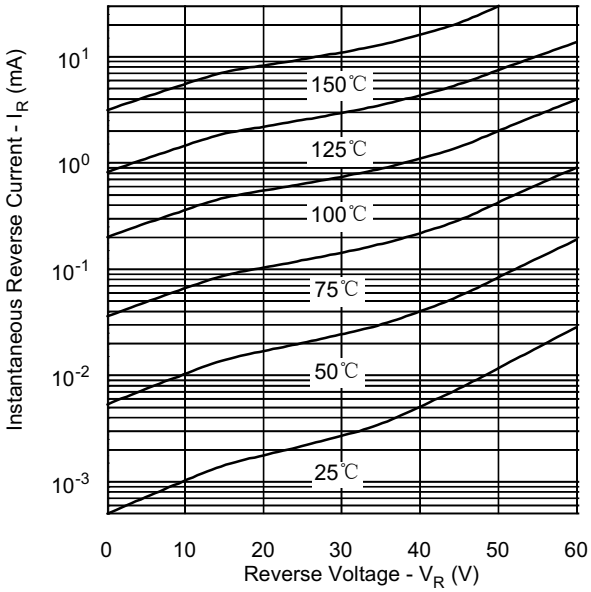
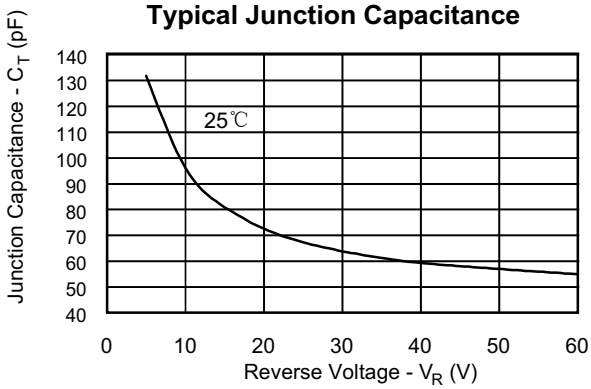
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



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