

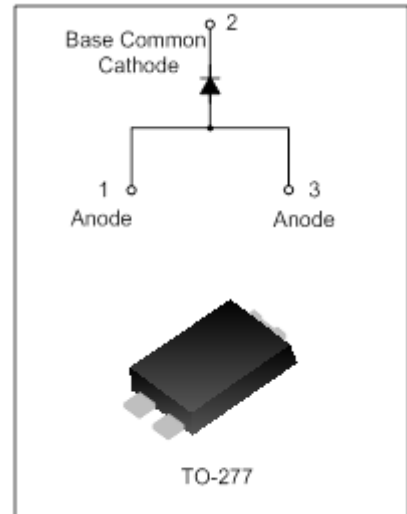
15A, 50V Schottky Rectifier

General Description

GGBD15L50T3 is a Schottky rectifier fabricated in TMBS technology. Guard ring construction is employed for over voltage protection and enhanced long term reliability. Typical applications are in switching power supplies, converters, free-wheeling diodes, and reverse battery protection.

Features

- Trench MOS Schottky technology
- High Surge Capacity
- Low power loss , high efficiency
- Low Forward Voltage Drop
- 150°C Operating Junction Temperature



Ordering Information

Part No.	Package	Marking	Material	Packing
GGBD15L50T3	TO-277	15L50	Halogen free	Tape & Reel

Absolute Maximum Ratings ($T_c=25^\circ\text{C}$ unless otherwise noted)

Characteristics	Symbol	Ratings	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	V
Average Forward Rectified Current	I_{FAV}	15	A
Peak Forward Surge Current@8.3ms	I_{FSM}	200	A
Operation Junction Temperature Range	T_J	-65~150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65~150	$^\circ\text{C}$

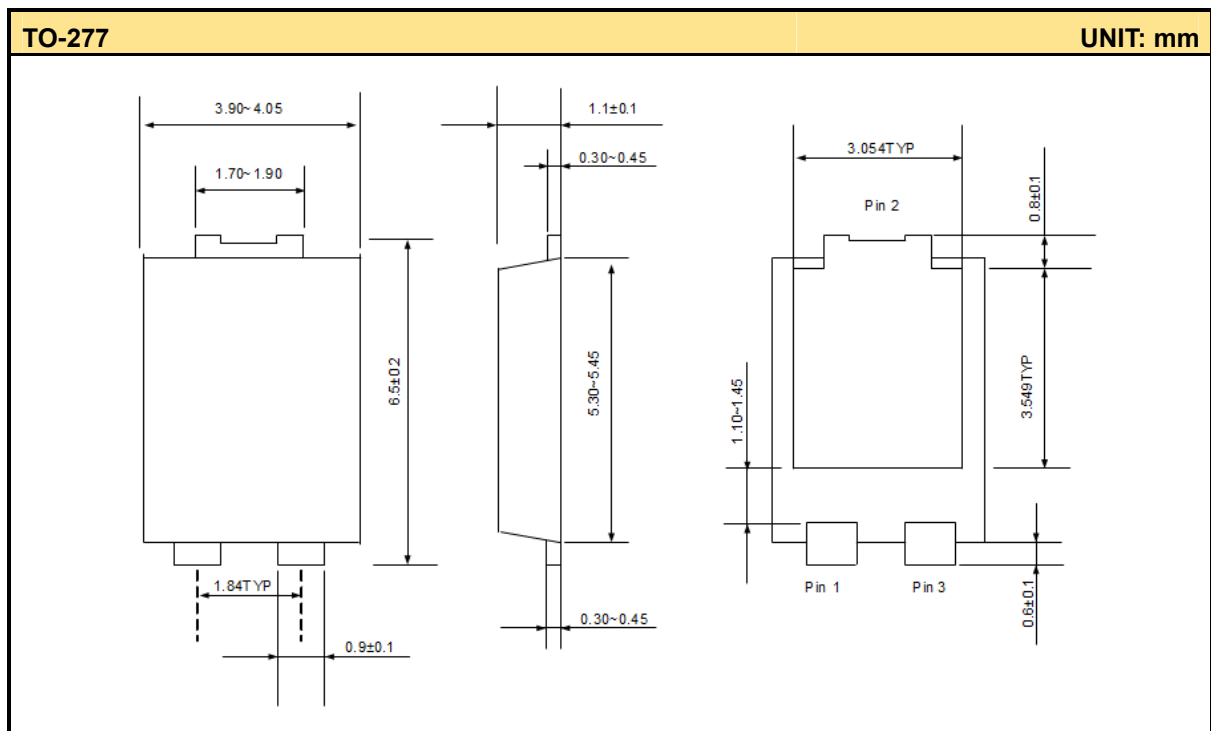
Thermal Characteristics

Characteristic	Symbol	Value	Unit
Thermal Resistance, Junction-to-Case	$R_{\theta JC}$	68	$^\circ\text{C/W}$

Electrical Characteristics (per leg)

Characteristics	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F=10A; T_J=25^{\circ}C$	--	0.46	0.51	V
		$I_F=10A; T_J=125^{\circ}C$	--	0.40	0.45	V
Reverse Current	I_R	$V_R=45V; T_J=25^{\circ}C$	--	100	200	μA
		$V_R=45V; T_J=100^{\circ}C$	--	-	15	mA

Package Outline



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