

SHA10U60S-AH

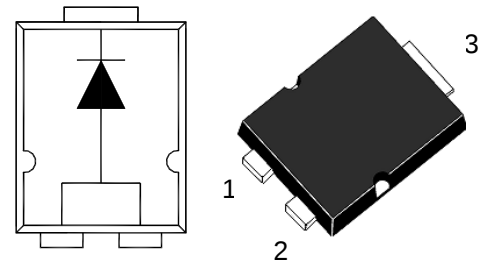
Surface Mount Schottky Barrier Rectifier

Features

- Low forward voltage
- High power capability
- AEC-Q101 Qualified
- Halogen and Antimony Free(HAF), RoHS compliant

Applications

- Low voltage rectification
- High efficiency DC-to-DC conversion
- Switch mode power supply
- Freewheeling application
- Reverse polarity protection



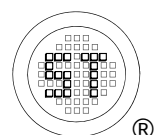
1.Anode 2.Anode 3.Cathode
TO-277A Plastic Package

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Reverse Voltage	V_R	60	V
Average Rectified Forward Current	$I_{F(AV)}$	10	A
Non-repetitive Peak Forward Surge Current ($t = 8.3 \text{ ms}$)	I_{FSM}	250	A
Junction Temperature Range	T_J	- 50 to + 150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 50 to + 150	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 2 \text{ A}$ at $I_F = 5 \text{ A}$ at $I_F = 10 \text{ A}$ at $I_F = 15 \text{ A}$ at $I_F = 20 \text{ A}$	V_F	0.38 0.45 0.56 0.65 0.72	V
Reverse Current at $V_R = 60 \text{ V}$	I_R	130	μA



Electrical Characteristics Curves

Fig 1. Reverse Characteristic Curve

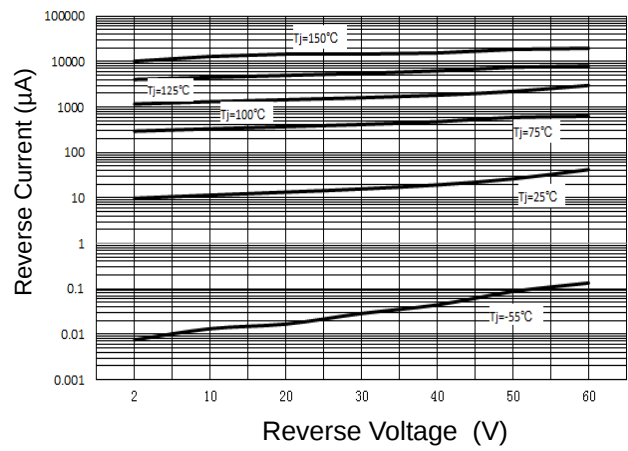


Fig 2. Forward Characteristic Curve

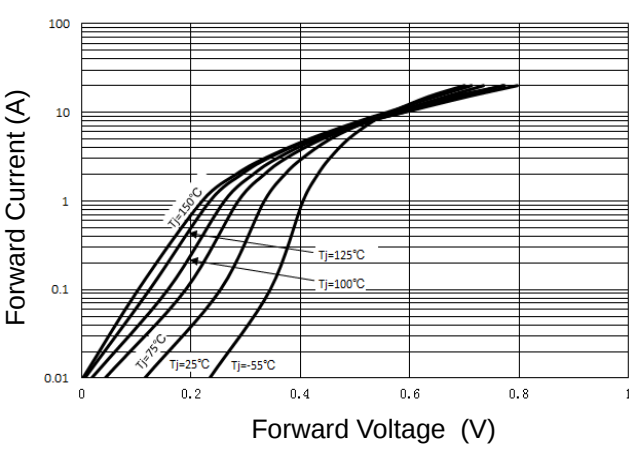
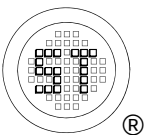
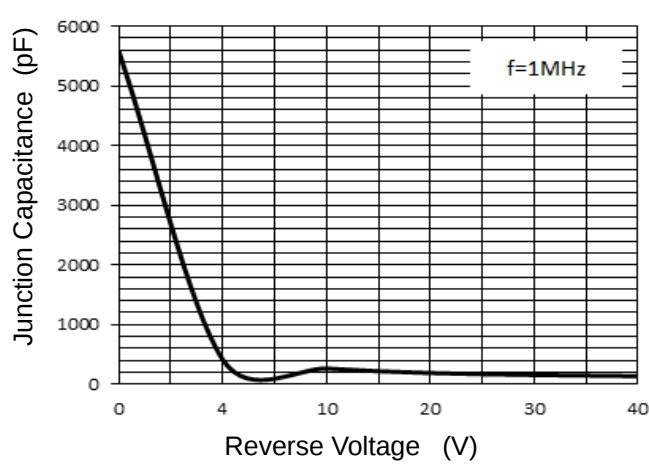


Fig 3. Junction Capacitance

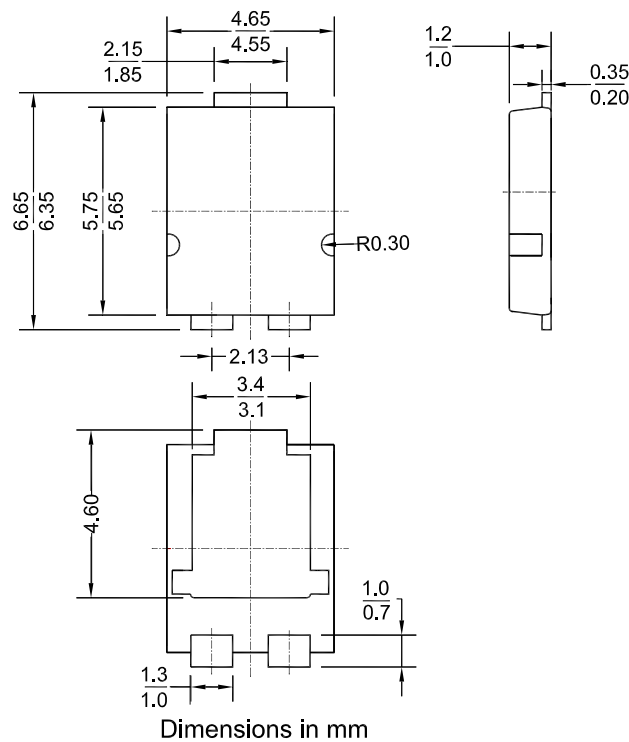


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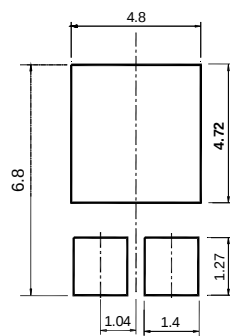
PACKAGE OUTLINE

Plastic surface mounted package (Units: mm)

TO-277A



Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
TO-277A	12	4 ± 0.1	0.157 ± 0.004	330	13	5,000

Marking information

" • " = HAF (Halogen and Antimony Free)
" ***** " = Part No.
" YYWW " = Date Code Marking
" Y " = Year (ex: 19 = 2019)
" W " = Week (ex: 09 = the 9th week of the year)
Font type: Arial

