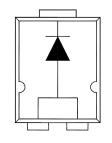
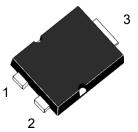
Surface Mount Fast Recovery Rectifier

Reverse Voltage - 600 V Forward Current - 6 A

Features

Low leakage current





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

Absolute Maximum Ratings (T_a = 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	600	V
Average Rectified Forward Current	I _{F(AV)}	6	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	80	A
Operating Junction and Storage Temperature Range	T_J , T_stg	- 55 to + 150	°C

Thermal Characteristics

Parameter	Symbol	Value	Unit
Typical Thermal Resistance-Junction to Case	$R_{ extsf{ heta}JC}$	2.3	°C/W

Characteristics at T_a = 25°C

Parameter	Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage at I _R = 100 μA	V _{(BR)R}	600	-	-	V
Forward Voltage at $I_F = 3 A$ at $I_F = 6 A$ at $I_F = 3 A$, $T_J = 125^{\circ}C$ at $I_F = 6 A$, $T_J = 125^{\circ}C$	V _F	- - -	- - 1.23 1.59	1.9 2.3 - 1.8	V
Reverse Current at $V_R = 600 V$ at $V_R = 600 V$, $T_J = 125^{\circ}C$	I _R	-	10 200	-	μA
Junction Capacitance at V_R = 4 V, f = 1 MHz	Cj	-	50	-	pF
Reverse Recovery Time at $I_F = 0.5 \text{ A}$, $I_R = 1 \text{ A}$, $I_{rr} = 0.25 \text{ A}$ at $I_F = 1 \text{ A}$, di/dt = -50A/µs, $V_R = 30 \text{ V}$	trr	-	-	25 45	ns



0.01

0.001

0.000001 0.00001 0.0001

ingle Pulse

0.001

0.01

Pulse Width (S)

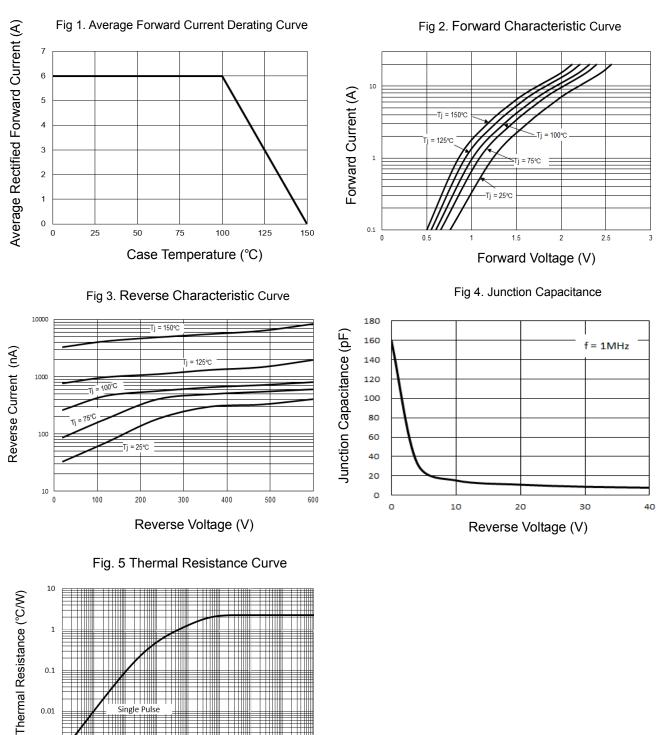
0.1

10

1

100

Electrical Characteristic Curves

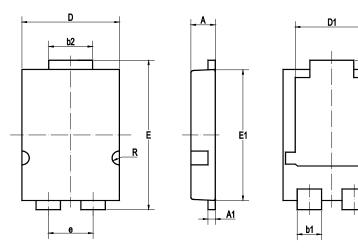




Package Outline Dimensions (Units: mm)

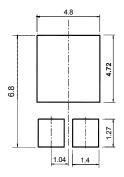
TO-277A

É2



UNIT	А	A1	b1	b2	D	D1	E	E1	E2	е	L	R
mm	1.2	0.35	1.3	2.15	4.65	3.4	6.65	5.75	4.60	2.13	1.0	0.3
	1.0	0.20	1.0	1.85	4.55	3.1	6.35	5.65	Тур.	Тур.	0.7	Тур.

Recommended Soldering Footprint



Packing information

Package	Tape Width (mm)	Pitch		Reel	Size	Per Peel Peeking Quantity	
		mm	inch	mm	inch	Per Reel Packing Quantity	
TO-277A	12	8 ± 0.1	0.315 ± 0.004	330	13	5,000	

Marking information

"FHA06H60S " = Part No.
YYWW = Date Code Marking
Y = Year (ex: 19 = 2019)
W = Week (ex: 09 = the 9th week of the year)
Font type: Arial

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Г	FHA06H60S	μ
Ц	YYWW	h
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