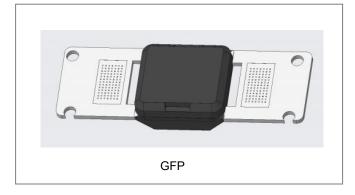






GFP3045TS Power Modules Schottky Rectifier



Mechanical Data

- Case: GFP
- High temperature soldering guaranteed
 Heated tool worlding 200℃ 40 accorde
- Heated-tool welding 260℃,10 seconds
- Marking Code: GFP3045TS

Features

- Low thermal resistance
- Lower forward voltage drop, low power loss
- Isolate Package design, ideal for heat dispersion
- High forward current capability
- Trench MOS Schottky technology
- Excellent anti-humidity
- Low profile package
- High forward surge capability
- All SMC parts are traceable to the wafer lot
- Additional electrical and life testing can be performed upon request

Maximum Ratings(limiting values, at 25 °C unless otherwise specified)

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	45	V
Average Rectified Forward Current	I _{F (AV)}	Tc=125°C, In DC	30	А
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	350	Α
Rating for fusing (t<8.3ms)	l²t	T _J = 25 °C	750	A ² sec

Electrical Characteristics

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop*	V_{F1}	@ 30A, Pulse, T _J = 25 °C	0.49	0.55	V
Reverse Current*	I _{R1}	@V _R = rated V _R T _J = 25 °C	0.02	0.20	mA
	I _{R2}	@V _R = rated V _R T _J = 100 °C	-	20	mA
	I _{R3}	$@V_R = \text{rated } V_R T_J = 125 ^{\circ}\text{C}$	25	55	mA
Junction Capacitance	Ст	$@V_R = 5V, T_C = 25 ^{\circ}C$ $f_{SIG} = 1MHz$	3680	-	pF

^{*} Pulse width < 300 µs, duty cycle < 2%

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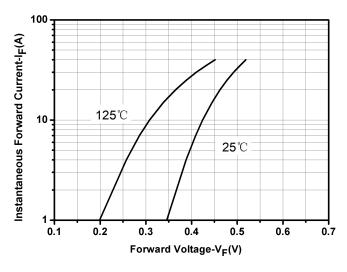


Thermal-Mechanical Specifications(Ta=25℃ Unless otherwise specified)

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature IN DC Forward Mode, without reverse bias, t ≤1 h	Τ _J	-	-55 to +200	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Typical Thermal Resistance Junction to Case	$R_{ heta JC}$	-	1.5	°C/W

100

Ratings and Characteristics Curves



125°C

10

10

125°C

25°C

1E-3

9

18

27

36

45

Reverse Voltage-V_R(V)

Fig.1-Typical Forward Voltage Characteristics

Fig.2-Typical Reverse Characteristics

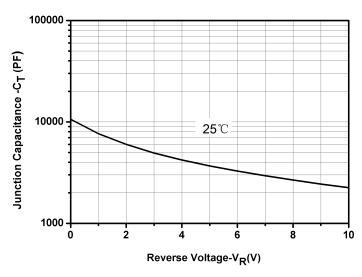


Fig.3-Capacitance vs. Reverse Voltage

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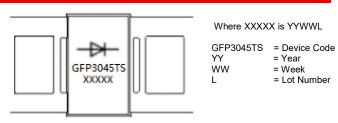




Ordering Information

Device	Package	Shipping
GFP3045TS	GFP	36pcs/Tube

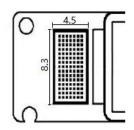
Marking Diagram



Order P/N	Terminals	Additional	
GFP3045TS-S1	Tin Plated	None	GF4050
GFP3045TS-S2	Tin Plated	Solder Paste	Solder Paste
GFP3045TS-S3	Tin Plated	Solder Block	
			Solder Block

Solder block Specification

The composition of the tin block is Sn50Pb50. The size of the tin block is $9(-0.3)*4(-0.2)*1(\pm0.1)$ mm. Solder block to be centered,not exceed the flat groove.



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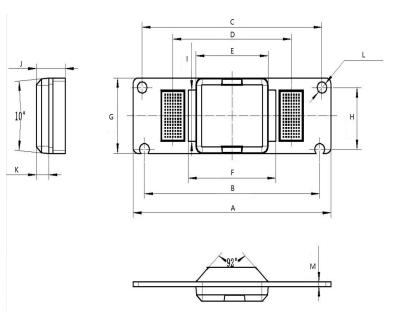
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Mechanical Dimensions GFP (Millimeters)



Symbol	Dimensions in millimeters			
	Min.	Typical	Max	
А	38.2	38.4		
В	33.85	34	34.15	
С	34.75	34.9	35.05	
D		22.98		
E	13.9	14		
F		17	17.1	
G	12.4	12.5		
Н	10.08	10.23	10.38	
I		8.5	8.6	
J	5.5	5.6	5.7	
K	2.3	2.4		
L		4-∅ 1.9		
М	0.78	0.8	0.82	

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Technical Data Data Sheet N2649. REV.-





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