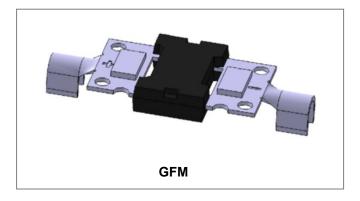






GF3545TS Power Modules Schottky Rectifier



Mechanical Data

- Case: GFM
- High temperature soldering guaranteed
 Heated-tool welding 260°C,10 seconds
- Marking Code: GF3545TS

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=123°C, In DC	35	А
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	350	Α

Electrical Characteristics

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop*	V _{F1}	@ 35A, Pulse, T _J = 25 °C	0.48	0.52	V
Reverse Current*	I _{R1}	@V _R = rated V _R T _J = 25 °C	0.03	0.20	mA
	I _{R2}	@V _R = rated V _R T _J = 100 °C	-	12	mA
	I _{R3}	@V _R = rated V _R T _J = 125 °C	20	55	mA
Junction Capacitance	Ст	$@V_R = 5V, T_C = 25 ^{\circ}C$ $f_{SIG} = 1MHz$	5000	-	pF

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

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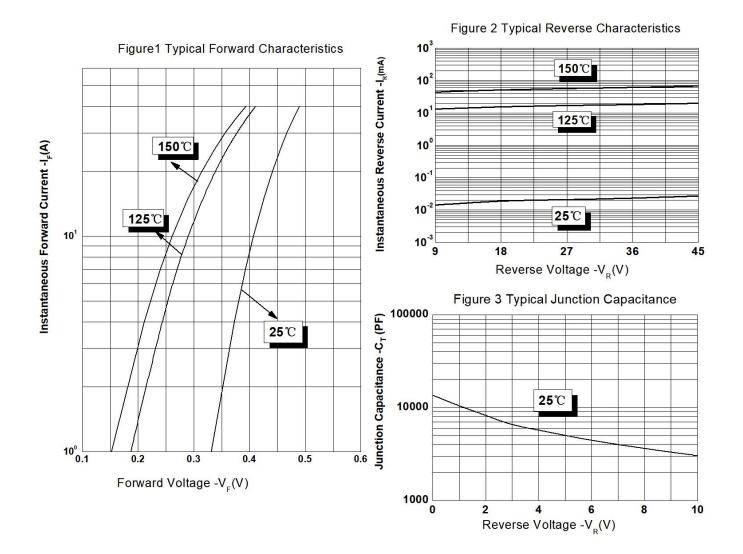




Thermal-Mechanical Specifications

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	Τ _J	IN DC Forward Mode, without reverse bias, t ≤1 h	-55 to +200	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Typical Thermal Resistance Junction to Case	R ₀ JC	-	1.5	°C/W

Ratings and Characteristics Curves



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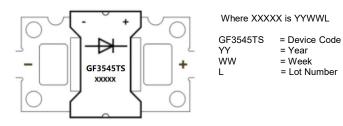




Ordering Information

Device	Package	Shipping
GF3545TS	GFM	30pcs/Tube

Marking Diagram



	Additional	Terminals	Order P/N
]	None	Tin Plated	GF3545TS-S1
ı T	Solder Paste ⊏	Tin Plated	GF3545TS-S2
]	Solder Block	Tin Plated	GF3545TS-S3
]	None	Nickel Plated	GF3545TS-N1
1	Solder Paste	Nickel Plated	GF3545TS-N2
ユT	Solder Block □	Nickel Plated	GF3545TS-N3





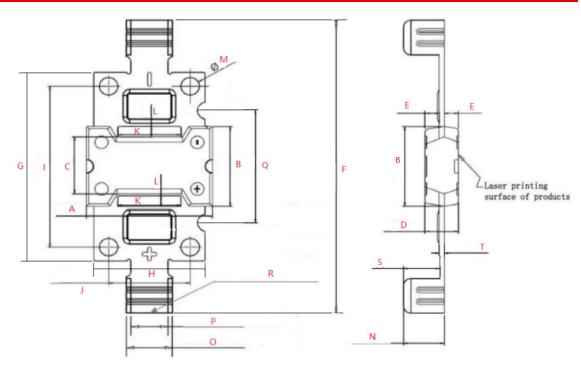
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Mechanical Dimensions GFM (Millimeters)



Symbol	Dimensions in millimeters			
	Min.	Typical	Max	
Α	16.90	17.00	17.10	
В	11.38	11.48	11.58	
С	8.15	8.20	8.25	
D	4.40	4.50	4.60	
E	1.85	1.90	1.95	
F	41.90	42.00	42.10	
G	26.90	27.00	27.10	
Н	14.90	15.00	15.60	
I	22.90	23.00	23.10	
J	10.90	11.00	11.10	
K	-	8.50	-	
L	-	1.50	-	
M	-	Ø 2.50	2.55	
N	5.35	5.50	5.65	
0	6.20	6.30	6.40	
Р	4.90	5.00	5.10	
Q	15.95	16.00	16.05	
R	2.80	2.90	3.00	
S	4.75	4.80	4.85	
Т	0.67	0.70	0.73	

Dimension H includes Burrs/cutting residuals.

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