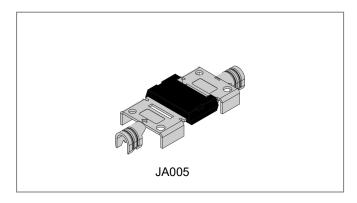


GFJ3545TS Power Schottky Module Bypass Diode



Mechanical Data

- Case: JA005
- High temperature soldering guaranteed
 Heated-tool welding 260℃,10 seconds
- Marking Code: GFJ3545TS

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, T _J = 25 °C	350	Α
Rating for fusing (t<8.3ms)	l²t	T₃ = 25 °C	500	A ² sec

Electrical Characteristics

Characteristics	Symbol	ymbol Condition		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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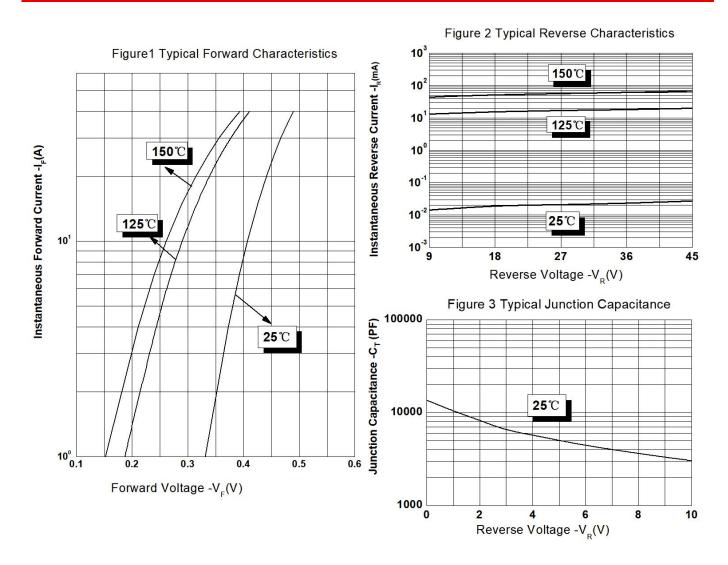
http://www.smc-diodes.com
 sales@ smc-diodes.com



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

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	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 _θ JC	-	1.0	°C/W

Ratings and Characteristics Curves



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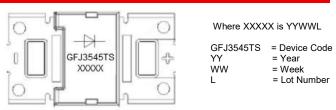
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Ordering Information

Device	Package	Shipping
GFJ3545TS	JA005	30pcs/Tube

Marking Diagram



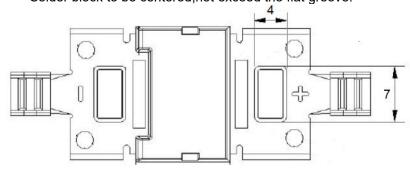
Order P/N	Terminals	Additional	
GFJ3545TS-S1	Tin Plated	None	GF4050
GFJ3545TS-S2	Tin Plated	Solder Paste	Solder Paste
GFJ3545TS-S3	Tin Plated	Solder Block	
			Solder Block

Solder block Specification

The composition of the tin block is Sn50Pb50 with flux.

The size of the tin block is $6(\pm 0.15)*3.5(\pm 0.15)*1(\pm 0.08)$ mm.

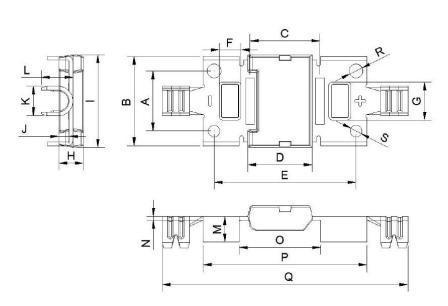
The composition and size of tin blocks can be customized according to customer requirements. Solder block to be centered,not exceed the flat groove.



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Mechanical Dimensions JA005 (Millimeters)



Symbol	Dimensions in millimeters	
	Min.	Max
Α	10.5	11.5
В	15.9	16.9
С	12.6	13
D	11.23	12.23
E	25.5	26.5
F	3.5	4.5
G	6.5	7.5
Н	4.3	4.7
I	16.5	17.5
J	1.7	2.1
K	5	5.8
L	5.6	6
М	4.4	5
N	0.6	0.8
0	14.73	15.13
Р	29.5	30.5
Q	44.5	45.5
R	2.35	2.65
S	2	2.3

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