JIEJIE MICROELECTRONICS CO., LTD.

GP4516SRT GENERAL PURPOSE RECTIFIER

DESCRIPTION

- Plastic package has underwriters laboratories flammability classification 94V-0
- ♦ Glass passivated chip junction
- ♦ Lead free in compliance with EU RoHS 2011/65/EU directive

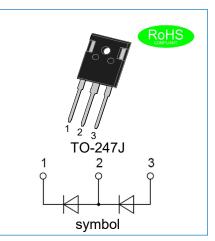
MECHANICAL DATA

- ♦ Case: TO-247J, molded plastic over passivated junction
- ♦ Terminals: Solder plated, solderable per J-STD-002
- ♦ Weight: 6 gram

ABSOLUTE MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS(Per diode)

(Rating at 25° C ambient temperature unless otherwise specified.)

Parameter		Symbol	GP4516SRT	Unit
Maximum repetitive peak reverse voltage		V _{RRM}	1600	V
Maximum RMS voltage		V _{RMS}	1120	V
Maximum DC blocking voltage		V _{DC}	1600	V
Average forward current at T _L =90 ℃		I _{F(AV)}	45	А
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	360	А
Maximum forward voltage @l _F =45A		VF	1.2	V
Maximum DC reverse current	T j =25 ℃	– I _R	10	μA
at rated DC blocking voltage	Tj=150℃		1.5	mA
Typical junction capacitance V _R =4.0V, f=1MHz		CJ	240	pF
Operating junction and storage temperature range		T _J ,T _{STG}	-55 to +150	°C
Virtual junction temperature		T _{VJ}	-55 to +175	°C



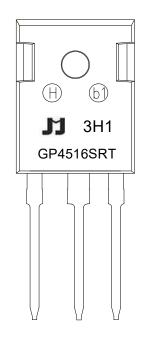
Rev.1.3

GP4516SRT

THERMAL RESISTANCES

Symbol	Parameter	GP4516SRT	Unit
R _{th(j-c)}	Junction to case	0.4	°C/W

MARKING



G	General Purpose Rectifier			
Р	Pin			
45	I _{F(AV)} =45A			
16	VRRM:1600V			
S	TO-247J			
RT	Reverse tandem			

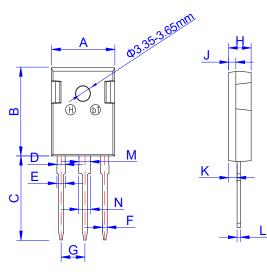
<u>x</u>H1: Month, 1/2/3~9/A/B/C

3<u>x</u>1:

J <u>A</u> 1.						
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	Ν
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

PACKAGE MECHANICAL DATA



TO-247J

	Dimensions						
Ref.	Ref. Millimete		rs		Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.	
Α	15.50	15.80	16.10	0.610	0.622	0.634	
В	20.80	21.00	21.20	0.819	0.827	0.835	
С	19.70	20.00	20.30	0.776	0.787	0.799	
D	1.80	2.00	2.20	0.071	0.079	0.087	
E	1.90	2.10	2.30	0.075	0.083	0.091	
F	1.00	1.20	1.40	0.039	0.047	0.055	
G	5.25		5.65	0.207		0.222	
Н	4.80	5.00	5.20	0.189	0.197	0.205	
J	1.90	2.00	2.10	0.075	0.079	0.083	
K	2.20	2.35	2.50	0.087	0.093	0.098	
L	0.41	0.60	0.79	0.016	0.024	0.031	
М	2.80	3.00	3.20	0.110	0.118	0.126	
N	2.90	3.10	3.30	0.114	0.122	0.130	

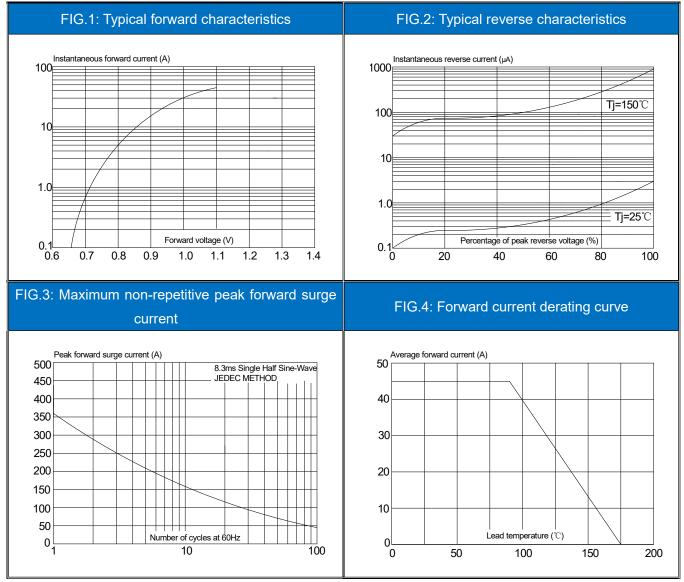


JieJie Microelectronics Co., Ltd.

PACKAGE INFORMATION-TO-247J

OUTLINE	UNIT WEIGHT	TUBE	PER CARTON
	(g/PCS) TYP	(PCS)	(PCS)
TUBE	6	30	2,250

CHARACTERITICS CURVE



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