

JIEJIE MICROELECTRONICS CO., LTD.

GP9016ISGENERAL PURPOSE RECTIFIER

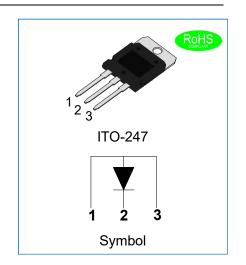
Rev.1.0

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:ITO-247, molded plastic over passivated junction
- → Terminals: Solder plated, solderable per J-STD-002
- Internally constructed isolated package is offered for ease of heat sinking with highest isolation voltage
- ♦ Weight: 10.2 gram



ABSOLUTE MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

(Rating at 25°C ambient temperature unless otherwise specified and refer to a single diode.)

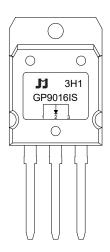
Parameter	Symbol	GP9016IS	Unit	
Maximum repetitive peak reverse voltage		V_{RRM}	1600	V
Maximum RMS voltage	V _{RMS}	1120	V	
Maximum DC blocking voltage	V _{DC}	1600	V	
Maximum average forward current	I _{F(AV)}	90	Α	
Peak forward surge current: 8.3ms wave superimposed on rated load (JEDEC method)	I _{FSM}	1150	А	
Maximum forward voltage@I _F =90A		VF	1.2	V
Maximum DC reverse current at rated DC blocking voltage	T _j =25℃		10	μA
	T _j =150℃	l _R	1.5	mA
Typical junction capacitance V _R =4.0V, f=1MHz		Сл	60	pF
Operating junction and storage temperature range		T _J ,T _{STG}	-55 to +150	$^{\circ}$



THERMAL RESISTANCES

Symbol	Parameter	GP9016IS	Unit
R _{th(j-c)}	Junction to case	1.6	°C/W

MARKING



G	General Purpose Rectifier			
Р	Pin			
90	I _{F(AV)} =90A			
16	V _{RRM} :1600V			
IS	Package:ITO-247			

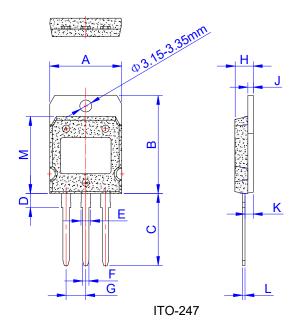
 $\underline{\mathbf{x}}$ H1: Month, 1、2、3 \sim 9、A、B、C

3<u>x</u>1:

2018	2019	2020	2021	2022	2023	2024
Н		J	K	Ш	М	Ν
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

PACKAGE MECHANICAL DATA



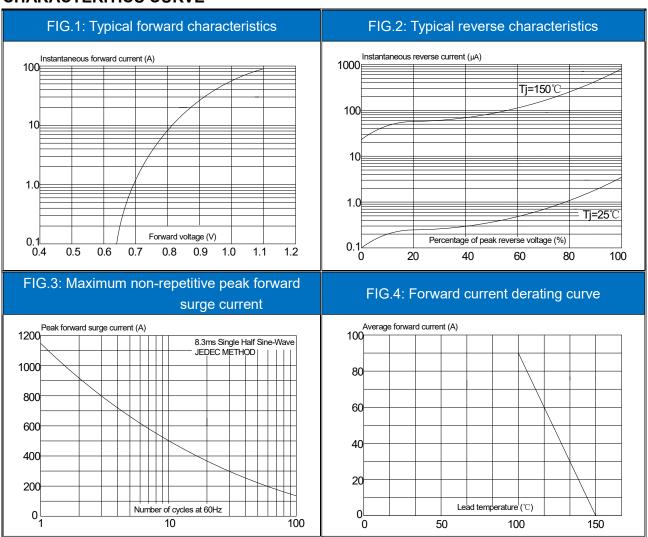
	Dimensions					
Ref.		Millimeters		Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	19.7	19.9	20.1	0.776	0.783	0.791
В	26.9	27.1	27.3	1.059	1.067	1.075
С	19.4	19.9	20.4	0.764	0.783	0.803
D	3.80	3.90	4.00	0.150	0.154	0.157
E	2.56	2.66	2.76	0.101	0.105	0.109
F	1.66	1.76	1.86	0.065	0.069	0.073
G		5.45			0.215	
Н	5.05	5.10	5.50	0.199	0.201	0.217
J	1.45	1.50	1.55	0.057	0.059	0.061
K	2.20	2.30	2.40	0.087	0.091	0.094
L	0.60	0.70	0.80	0.024	0.028	0.031
М	21.2	21.3	21.4	0.835	0.839	0.843



PACKAGE INFORMATION-ITO-247

OUTLINE UNIT WEIGHT (g/PCS) typ.		TUBE (PCS)	PER CARTON (PCS)
TUBE	10.2	25	1,600

CHARACTERITICS CURVE





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