

JIEJIE MICROELECTRONICS CO., LTD.

GP9016IS ~GP9020IS GENERAL PURPOSE RECTIFIER

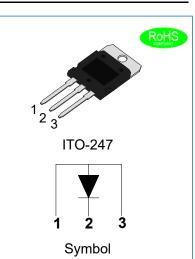
Rev.1.1

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	GP9020IS	Unit	
Maximum repetitive peak reverse v	Vrrm	1600	2000	V	
Maximum RMS voltage		Vrms	1120	1400	V
Maximum DC blocking voltage	V _{DC}	1600	2000	V	
Maximum average forward current	I _{F(AV)}	9	А		
Peak forward surge current: 8.3ms wave superimposed on rated load	Ifsm	1150		А	
Maximum forward voltage@l⊧=90A		VF	1.2		V
Maximum DC reverse current at rated DC blocking voltage $T_j=25^{\circ}C$ $T_j=150^{\circ}C$		1	10		μA
		IR	1.5		mA
Typical junction capacitance V _R =4.0V, f=1MHz	CJ	60		pF	
Operating junction and storage tem	TJ,TSTG	-55 to +150		°C	

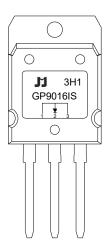
THERMAL RESISTANCES

Symbol	Parameter	GP9016IS	GP9020IS	Unit
Rth(j-c)	Junction to case	1	.6	°C/W

GP9016IS~GP9020IS

JieJie Microelectronics Co., Ltd.

MARKING



C	6	General Purpose Rectifier				
F	D	Pin				
9	0	IF(AV)=90A				
1	6	V _{RRM} :1600V				
15	IS Package:ITO-247					

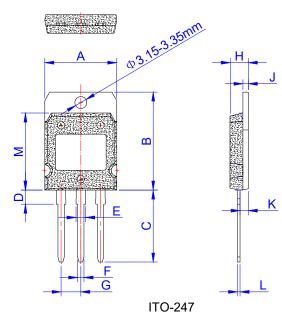
<u>x</u> H1: Month,	1、	2、	3	\sim	9、	A٦	В、	С	
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3<u>x</u>1:

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

3Hx: Batch number

PACKAGE MECHANICAL DATA

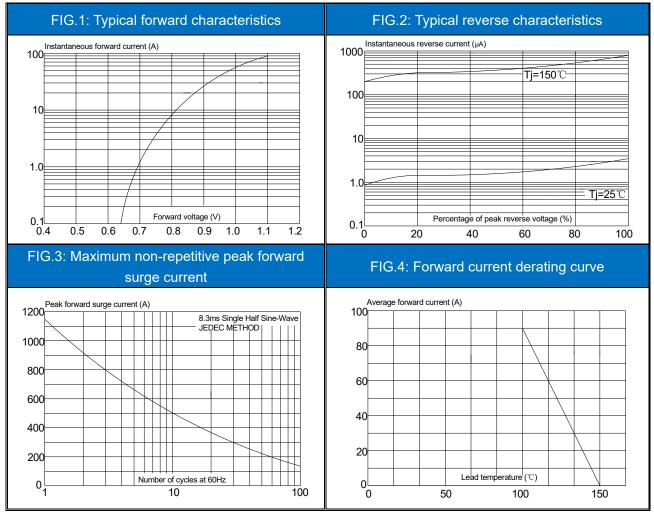


	Dimensions					
Ref.	Millimeters		Inches			
	Min.	Тур.	Max.	Min.	Тур.	Max.
А	19.7	19.9	20.1	0.776	0.783	0.791
В	26.9	27.1	27.3	1.059	1.067	1.075
С	19.4	19.9	20.4	0.764	0.783	0.803
D	3.80	3.90	4.00	0.150	0.154	0.157
Е	2.56	2.66	2.76	0.101	0.105	0.109
F	1.66	1.76	1.86	0.065	0.069	0.073
G		5.45			0.215	
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
К	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	TUBE	PER CARTON	
	(g/PCS) typ.	(PCS)	(PCS)	
TUBE	10.2	25	1,600	

CHARACTERITICS CURVE



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