JIEJIE MICROELECTRONICS CO., LTD.

JEFR8006SCT EPI FAST RECOVERY RECTIFIER

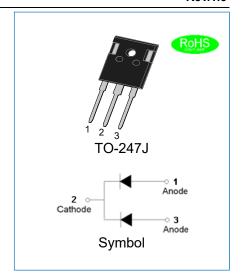
Rev.1.5

DESCRIPTION

- Plastic package has underwriters laboratory flammability classification 94V-0
- ♦ Lead free in comply with EU RoHS 2011/65/EU directives
- ♦ Low reverse leakage current
- ♦ Fast recovery time and soft recovery characteristics
- ♦ Low recovery loss

MECHANICAL DATA

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



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

<u>`</u>			
Parameter	Symbol	JEFR8006SCT	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	600	V
Maximum RMS voltage	V _{RMS}	420	V
Maximum DC blocking voltage	V _{DC}	600	V
Average forward current at Tc=125℃	I _{F(AV)}	80	Α
Peak forward surge current: 10ms single half sine-wave superimposed on rated load(per diode)	I _{FSM}	400	А
Junction temperature and storage temperature range	T _j ,T _{stg}	-55 to +150	$^{\circ}$

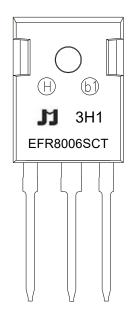
ELECTRICAL CHARACTERISTICS(Rating at 25°C ambient temperature unless otherwise specified.)

Parameter			Min.	Тур.	Max.	Unit
Forward voltage	I _F =40A,T _j =25℃	V _F	-	1.25	1.4	V
Deverse current	V _R =600V,T _j =25℃	ı	-	-	5	μΑ
Reverse current	V _R =600V,T _j =150°C	I _R	-	-	400	
Reverse recovery time	I _F =0.5A,I _R =1A,I _{RR} =0.25A	t _{rr}	-	-	75	ns

THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
R _{th(j-c)}	Thermal resistance from junction to case	-	0.5	-	°C/W
R _{th(j-a)}	Thermal resistance from junction to ambient		45	-	C/VV

MARKING



EFR	EPI Fast Recovery Rectifier
80	I _{F(AV)} =80A
06	V _{RRM} :600V
S	Package:TO-247J
СТ	Common cathode

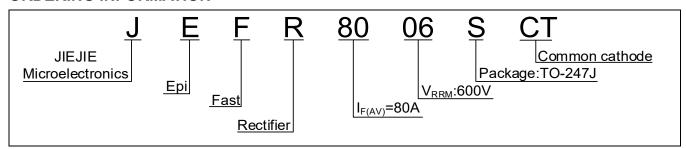
xH1: Month, 1/2/3~9/A/B/C

3**x**1:

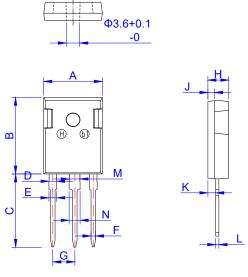
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	Ν
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA



Ф3.8+0.1

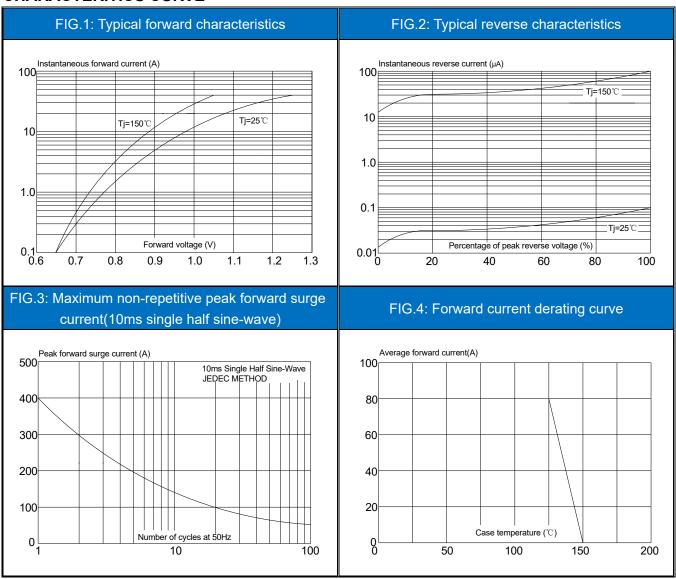
	Dimensions					
Ref.		Millimete	Millimeters		Inches	
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	15.50	15.80	16.10	0.610	0.622	0.634
В	20.80	21.00	21.20	0.819	0.827	0.835
С	19.70	20.00	20.30	0.776	0.787	0.799
D	1.80	2.00	2.20	0.071	0.079	0.087
E	1.90	2.10	2.30	0.075	0.083	0.091
F	1.00	1.20	1.40	0.039	0.047	0.055
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

TO-247J

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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