JIEJIE MICROELECTRONICS CO., LTD.

JEER2006SCT EPI SUPERFAST RECOVERY RECTIFIER

DESCRIPTION

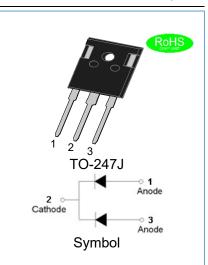
- Plastic package has underwriters laboratory flammability classification 94V-0
- ♦ Lead free in comply with EU RoHS 2011/65/EU directives
- ♦ Low reverse leakage current
- ♦ Superfast recovery time and soft recovery characteristics
- ♦ Low recovery loss

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℃	ambient temperatu	ure unless	otherwise	specified.)

Parameter	Symbol	JEER2006SCT	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	600	V
Maximum RMS voltage	Vrms	420	V
Maximum DC blocking voltage	V _{DC}	600	V
Average forward current at T_c=100 $^\circ\!\!\!{}^\circ\!\!\!{}^\circ\!\!\!{}^\circ$	I _{F(AV)}	20	А
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load(per diode)		150	•
Peak forward surge current: 10ms single half sine-wave superimposed on rated load(per diode)	- I _{FSM}	120	A
Junction temperature and storage temperature range	T_{j}, T_{stg}	-55 to +150	°C



Rev.1.2

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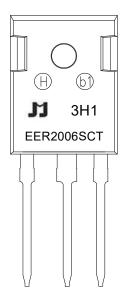
ELECTRICAL CHARACTERISTICS (Rating at 25 °C ambient temperature unless otherwise specified.)

Parameter			Min.	Тур.	Max.	Unit
Converdiveltere	I _F =10A,Tj=25℃		-	1.3	1.7	
Forward voltage	I _F =10A,Tj=150℃	VF	-	1.0	1.35	V
DC reverse current	T j =25 ℃		-	-	5	μA
at rated DC blocking voltage	Tj=150℃	I _R	-	-	200	
	I _F =0.5A,I _R =1A,Irr=0.25A		-	-	35	
Reverse recovery time	I _F =1A,V _R =30V, di/dt=100A/µs,Tj=25℃	t _{rr}	-	30	50	ns
	I _F =1A,V _R =30V, di/dt=50A/µs,Tj=25℃		-	40	55	

THERMAL RESISTANCES

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

MARKING



EER	EPI Superfast Recovery Rectifier
20	IF(AV)=20A
06	V _{RRM} :600V
S	Package:TO-247J
СТ	Common cathode

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

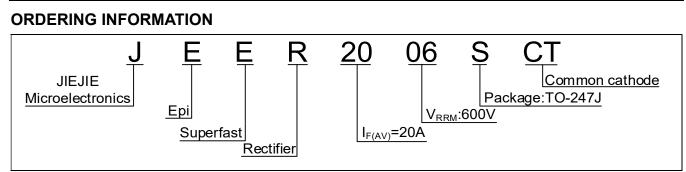
3<u>x</u>1:

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

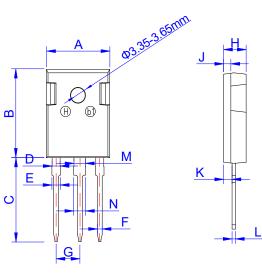
3H<u>x</u>: Batch number

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PACKAGE MECHANICAL DATA



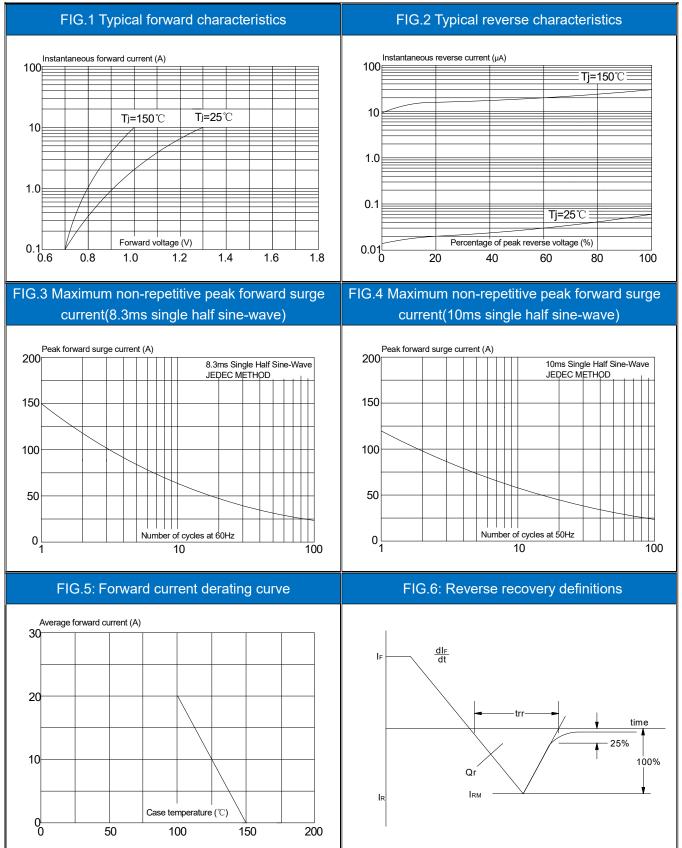
TO-247J
IO-247J

	Dimensions					
Ref.		Millimeters		Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
А	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
Е	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
К	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

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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