JIEJIE MICROELECTRONICS CO., LTD.

JECR4002SCT EPI HYPERFAST RECOVERY RECTIFIER

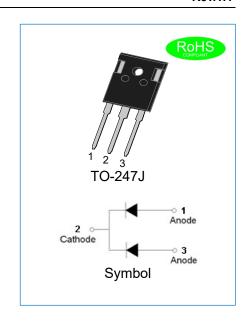
Rev.1.1

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
- ♦ Hyperfast recovery time and soft recovery characteristics
- ♦ Low recovery loss
- Applications for PFC circuit (CCM), for white goods, for telecommunication device, etc.



- ♦ 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.)

Parameter	Symbol	JECR4002SCT	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	200	V
Maximum RMS voltage	V _{RMS}	140	V
Maximum DC blocking voltage	V _{DC}	200	V
Average forward current at T _C =125℃	I _{F(AV)}	40	А
Peak forward surge current: 10ms single half sine-wave superimposed on rated load(per diode)	I _{FSM}	250	Α
Junction temperature and storage temperature range	T_j, T_{stg}	-55 to +150	$^{\circ}$ C

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

Parameter			Min.	Тур.	Max.	Unit
Fanyard valtage @L =204	T _j =25℃		-	-	1.1	V
Forward voltage @I _F =20A	T _j =150°C	V _F	-	-	0.95	
DC reverse current at rated	T _j =25℃	ı	-	-	5	μА
DC blocking voltage	T _j =150°C	I _R	-	-	300	
Reverse recovery time	I _F =0.5A,I _R =1A,I _{RR} =0.25A	t _{rr}	-	-	25	ns

THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
R _{th(j-c)}	Thermal resistance from junction to case	-	-	2.0	°C/W

MARKING



ECR	EPI Hyperfast Recovery Rectifier
40	I _{F(AV)} =40A
02	V _{RRM} :200V
S	Package:TO-247J
СТ	Common cathode

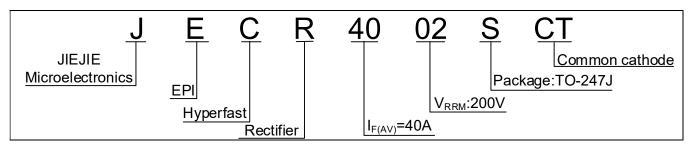
xH1: Month, 1/2/3~9/A/B/C

3**x**1:

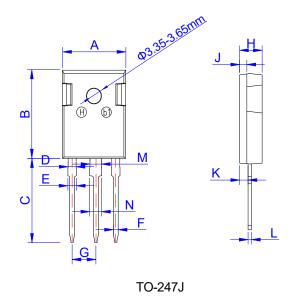
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	N
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

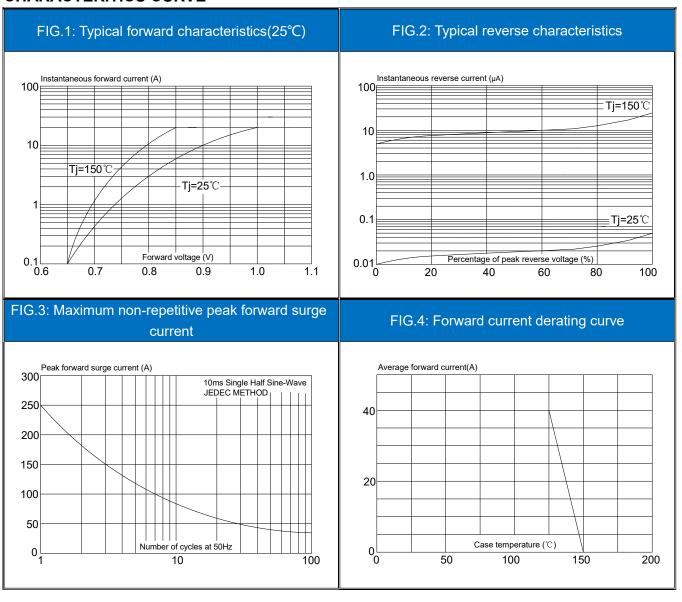


	Dimensions						
Ref.		Millimete	rs	Inches			
	Min.	Тур.	Max.	Min.	Тур.	Max.	
Α	15.50	15.80	16.10	0.610	0.622	0.634	
В	20.80	21.00	21.20	0.819	0.827	0.835	
С	19.70	20.00	20.30	0.776	0.787	0.799	
D	1.80	2.00	2.20	0.071	0.079	0.087	
E	1.90	2.10	2.30	0.075	0.083	0.091	
F	1.00	1.20	1.40	0.039	0.047	0.055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

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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