JIEJIE MICROELECTRONICS CO., LTD.

JECR1002CCT EPI HYPERFAST RECOVERY RECTIFIER

DESCRIPTION

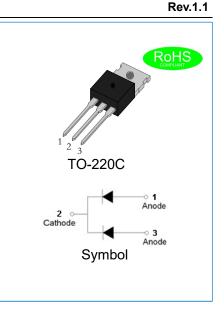
- Plastic package has underwriters laboratory flammability classification 94V-0
- ♦ Lead free in comply with EU RoHS 2011/65/EU directives
- ♦ Low reverse leakage current
- ♦ Hyperfast recovery time and soft recovery characteristics
- ♦ Low recovery loss
- ♦ Home appliance power supply

MECHANICAL DATA

- ♦ Case: TO-220C molded plastic over passivated junction
- ♦ Terminals: Solder plated, solderable per J-STD-002
- ♦ Weight: 2.08 gram

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

Parameter	Symbol	JECR1002CCT	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
Maximum average forward current at $T_{C}\text{=}100^{\circ}\text{C}$	I _{F(AV)}	10	Α
Peak forward surge current: 10ms single half sine-wave superimposed on rated load(per diode)	I _{FSM}	50	A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load(per diode)	I _{FSM}	55	A
Junction temperature and storage temperature range	T _j ,T _{stg}	-55 to +150	°C



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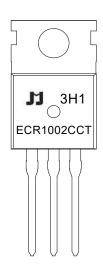
ELECTRICAL CHARACTERISTICS(Rating at 25°C ambient temperature unless otherwise specified.)

Parameter			Min.	Тур.	Max.	Unit
Forward valtage	I _F =5A,Tj=25℃	N	-	-	1.1	V
Forward voltage	I⊧=5A,Tj=150°C	VF	-	-	0.895	
DC reverse current at rated	T j =25 ℃	I	-	-	5	μA
DC blocking voltage	T j=150℃	I _R	-	-	200	
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
10	I _{F(AV)} =10A
02	V _{RRM} :200V
С	Package:TO-220C
СТ	Common cathode

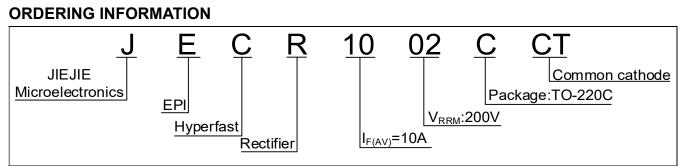
<u>x</u>H1: Month, 1、2、3 \sim 9、A、B、C 3x1:

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	

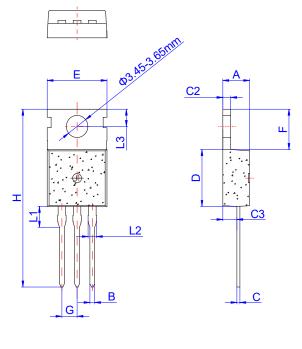
3Hx: Batch number

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PACKAGE MECHANICAL DATA



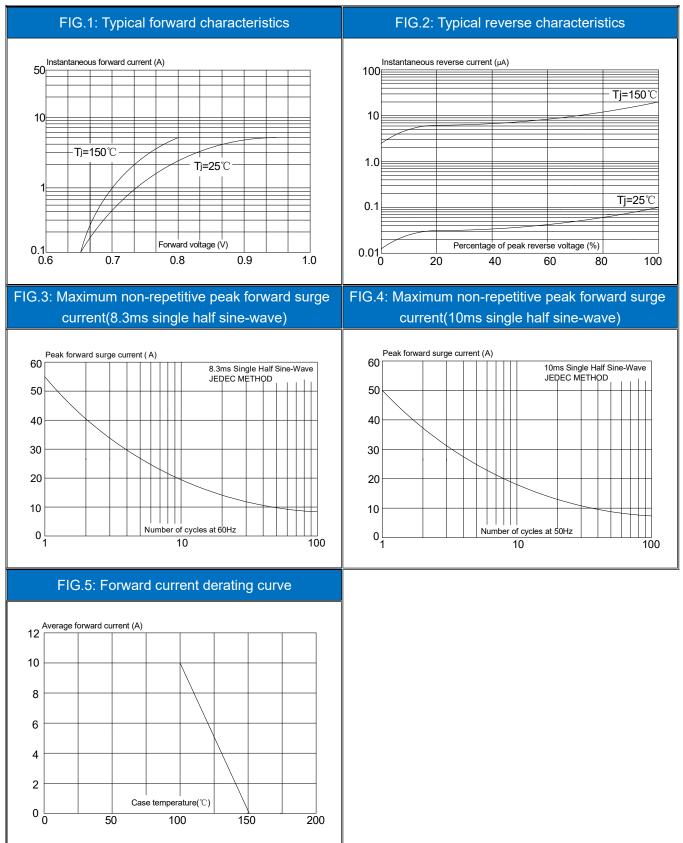
	Dimensions					
Ref.	Millimeters			Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
А	4.40		4.60	0.173		0.181
В	0.70		0.90	0.028		0.035
С	0.45		0.60	0.018		0.024
C2	1.23		1.32	0.048		0.052
C3	2.20		2.60	0.087		0.102
D	8.90		9.90	0.350		0.390
Е	9.90		10.3	0.390		0.406
F	6.30		6.90	0.248		0.272
G		2.54			0.1	
Н	28.0		29.8	1.102		1.173
L1		3.39			0.133	
L2	1.14		1.70	0.045		0.067
L3	2.65		2.95	0.104		0.116
Φ		3.6			0.142	

TO-220C

PACKAGE INFORMATION-TO-220C

OUTLINE	UNIT WEIGHT	TUBE	PER CARTON
	(g/PCS) typ.	(PCS)	(PCS)
TUBE	2.08	50	5,000

CHARACTERITICS CURVE



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