# JIEJIE MICROELECTRONICS CO., LTD.

# JEER1604CCT EPI SUPERFAST SOFT RECOVERY RECTIFIER

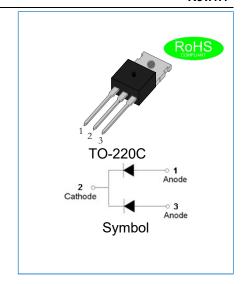
Rev.1.1

#### **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
- ♦ Superfast recovery time and soft recovery characteristics
- ♦ Low recovery loss

#### **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℃ case temperature unless otherwise specified.)

Parameter	Symbol	JEER1604CCT	Unit
Maximum repetitive peak reverse voltage	$V_{RRM}$	400	V
Maximum RMS voltage	V <sub>RMS</sub>	280	V
Maximum DC blocking voltage	V <sub>DC</sub>	400	V
Maximum average forward current at T <sub>C</sub> =100℃	I <sub>F(AV)</sub>	16	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load(per diode)	I <sub>FSM</sub>	125	Α
Junction temperature and storage temperature range	$T_j, T_{stg}$	-55 to +150	$^{\circ}$ C

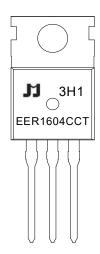
# **ELECTRICAL CHARACTERISTICS**(Rating at 25°C case temperature unless otherwise specified.)

Parameter			Min.	Тур.	Max.	Unit
Maximum forward voltage	I <sub>F</sub> =8A,T <sub>j</sub> =25℃	V <sub>F</sub>	-	-	1.3	V
Maximum DC reverse current at rated DC blocking voltage	T <sub>j</sub> =25℃	1	-	-	5	μA
	T <sub>j</sub> =150℃	IR	-	-	200	
Reverse recovery time	I <sub>F</sub> =0.5A,I <sub>R</sub> =1A,I <sub>rr</sub> =0.25A	t <sub>rr</sub>	-	-	35	ns

# THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
R <sub>th(j-c)</sub>	Thermal resistance from junction to case	-	2.0	ı	°C/W

# **MARKING**



EER	EPI Superfast Recovery Rectifier
16	I <sub>F(AV)</sub> =16A
04	V <sub>RRM</sub> : 400V
С	Package: TO-220C
CT	Common cathode

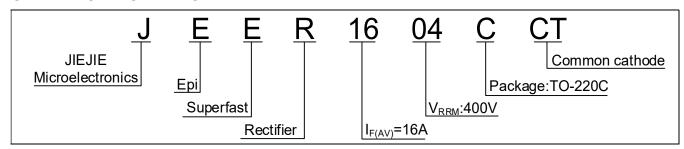
 $\underline{\mathbf{x}}$ H1: Month, 1, 2, 3  $\sim$  9, A, B, C

3<u>x</u>1:

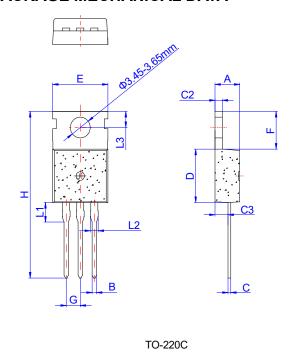
2018	2019	2020	2021	2022	2023	2024
Н	ı	J	K	L	М	Ν
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

# **ORDERING INFORMATION**



# PACKAGE MECHANICAL DATA

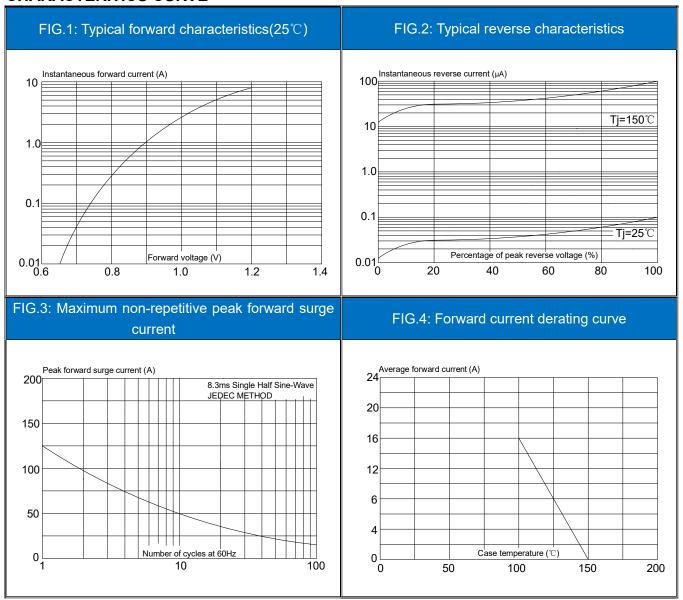


	Dimensions					
Ref.	Millimeters			Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.40		4.60	0.173		0.181
В	0.70		0.90	0.028		0.035
С	0.45		0.60	0.018		0.024
C2	1.23		1.32	0.048		0.052
C3	2.20		2.60	0.087		0.102
D	8.90		9.90	0.350		0.390
Е	9.90		10.3	0.390		0.406
F	6.30		6.90	0.248		0.272
G		2.54			0.1	
Н	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
Ф		3.6			0.142	

# **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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