JIEJIE MICROELECTRONICS CO., Ltd

JECR1602ECT EPI HYPERFAST RECOVERY RECTIFIER

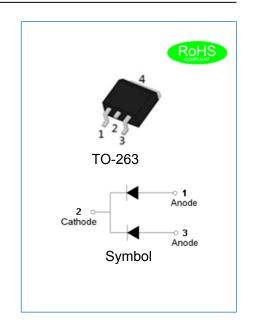
Rev.1.3

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 switching power supplies, inverters and as free wheeling diodes



- ♦ Case: TO-263 molded plastic over passivated junction
- ♦ Terminals: Solder plated, solderable per J-STD-002
- ♦ Weight:1.55gram



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

Parameter	Symbol	JECR1602ECT	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 Tc=125°C	I _{F(AV)}	16	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load(per diode)	I _{FSM}	100	А
Junction temperature and storage temperature range	Tj,Tstg	-55 to +175	$^{\circ}$

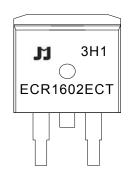
ELECTRICAL CHARACTERISTICS(Rating at 25°C case temperature unless otherwise specified.)

Parameter			Min.	Тур.	Max.	Unit
Forward voltage @I _F =8A	T _j =25℃	\/_	-	-	1.1	V
	T _j =150℃	V _F	-	-	1.0	
Reverse current at rated DC blocking voltage	T _j =25℃	I _R	-	-	5	μΑ
	T _j =150℃		-	-	200	
Reverse recovery time	I _F =1A,di/dt= 50A/μs	4	-	-	35	ns
	I _F =0.5A,I _R =1A,I _{RR} =0.25A	t _{rr}	-	-	25	

THERMAL RESISTANCES

Symbol	Parameter		Тур.	Max.	Unit
R _{th(j-c)}	Thermal resistance from junction to case	-	-	3	°C/W
R _{th(j-a)}	Thermal resistance from junction to ambient	-	-	50	°C/W

MARKING



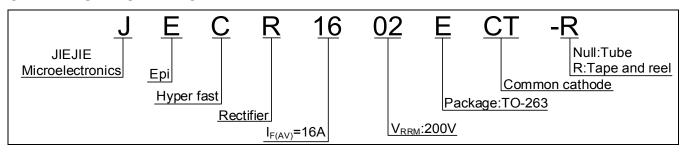
ECR	EPI Hyperfast Recovery Rectifier
16	I _{F(AV)} =16A
02	V _{RRM} :200V
Е	Package:TO-263
СТ	Common cathode

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

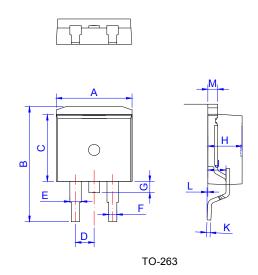
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	Ν
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION

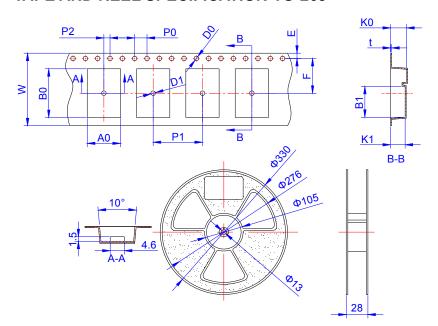


PACKAGE MECHANICAL DATA



	Dimensions					
Ref.	Millimeters					
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	9.90		10.20	0.390		0.402
В	14.70		15.80	0.579		0.622
С	8.80		9.60	0.346		0.378
D		2.54			0.100	
E	1.20		1.40	0.047		0.055
F	0.75		0.85	0.030		0.033
G			1.75			0.069
Н	4.40		4.70	0.173		0.185
J	2.30		2.70	0.091		0.106
K	0.38		0.55	0.015		0.022
L	0	0.10	0.25	0	0.004	0.010
М	1.17		1.37	0.046		0.054

TAPE AND REEL SPECIFICATION-TO-263

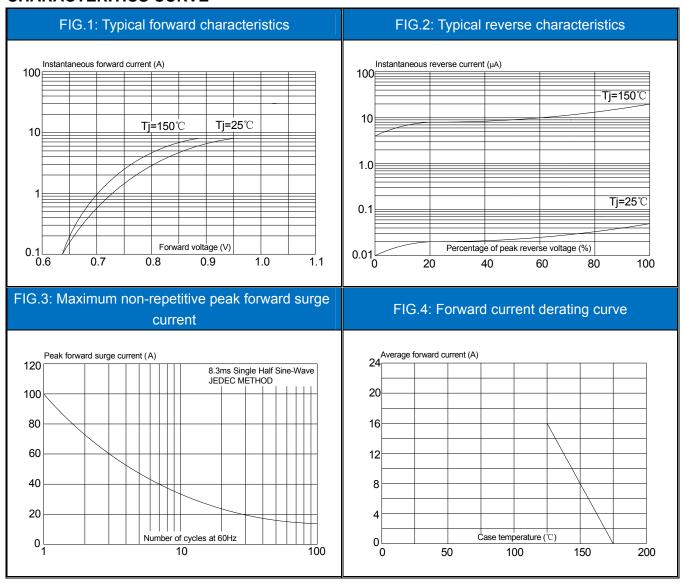


Ref	Dimensions				
Rei.	Millimeters	Inches			
W	24.00±0.30	0.945±0.012			
E	1.75±0.10	0.069±0.004			
F	11.50±0.10	0.453±0.004			
D0	1.50+0.10	0.059+0.004			
D1	1.50+0.10	0.059+0.004			
P0	4.00±0.10	0.157±0.004			
P1	16.00±0.10	0.630±0.004			
P2	2.00±0.10	0.079±0.004			
A0	10.80±0.10	0.425±0.004			
В0	16.13±0.10	0.635±0.004			
B1	10.24±0.20	0.403±0.008			
K0	5.21±0.10	0.205±0.004			
K1	4.70±0.10	0.185±0.004			
t	0.35±0.05	0.014±0.002			

PACKAGE INFORMATION-TO-263

PART No.	UNIT WEIGHT (g/PCS) typ.	TUBE (PCS)	PER CARTON (PCS)
JECR1602ECT	1.55	50	5,000
PART No.	UNIT WEIGHT (g/PCS) typ.	REEL (PCS)	PER CARTON (PCS)
JECR1602ECT-R	1.55	800	8,000

CHARACTERITICS CURVE





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