

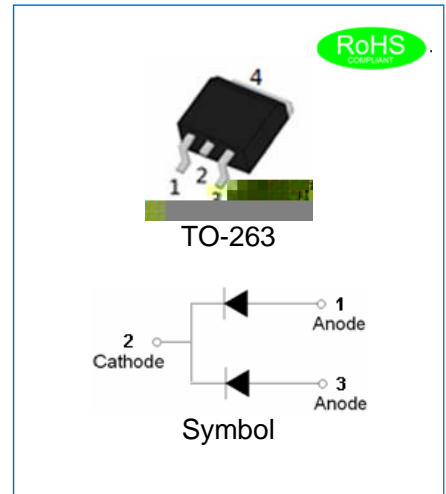


JEER2004ECT EPI SUPERFAST RECOVERY RECTIFIER

Rev.1.8

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

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

Parameter	Symbol	JEER2004ECT	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	400	V
Maximum DC blocking voltage	V_{DC}	400	V
Average forward current at $T_C=100$	$I_{F(AV)}$	20 A	
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load(per diode)	I_{FSM}	150 A	
Junction temperature and storage temperature range	T_j, T_{stg}	-55 to +150	

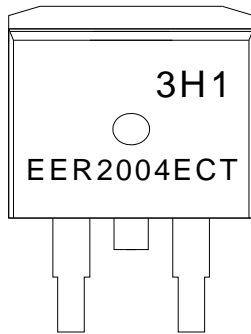
ELECTRICAL CHARACTERISTICS (Rating at 25 ambient temperature unless otherwise specified.)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Forward voltage	$I_F=10A, T_j=25$	V_F	-	-	1.3 V
Reverse current	$V_R=400V, T_j=25$	I_R	-	-	5 μA
	$V_R=400V, T_j=150$		-	-	200 μA
Reverse recovery time	$I_F=0.5A, I_R=1A, I_{rr}=0.25A$	t_{rr}	-	-	35 ns

THERMAL RESISTANCES

Symbol	Parameter	Min.	Typ.	Max.	Unit
$R_{th(j-c)}$	Thermal resistance from junction to case	-	2.0	-	$^{\circ}C/W$

MARKING



ORDERING INFORMATION

J	E	E	R	20	04	E	CT	-R
JieJie Microelectronics	Epi Superfast	Rectifier	$I_{F(AV)}=20A$		$V_{RRM}=400V$		Common cathode	Package:TO-263 Null:Tube R:Tape and reel

PACKAGE MECHANICAL DATA

Dimensions
- / Milli CKA

FIG.3 Maximum non-repetitive peak forward surge current

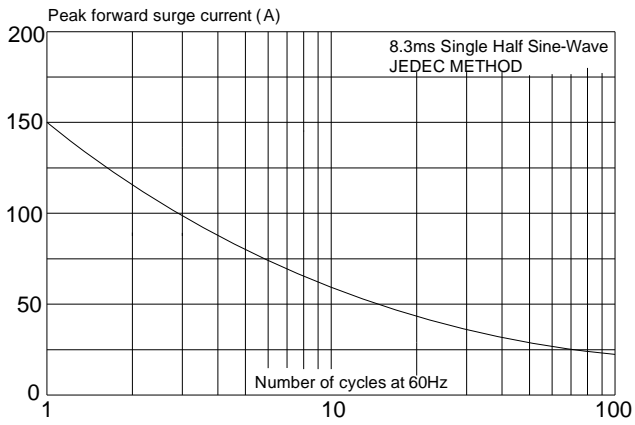
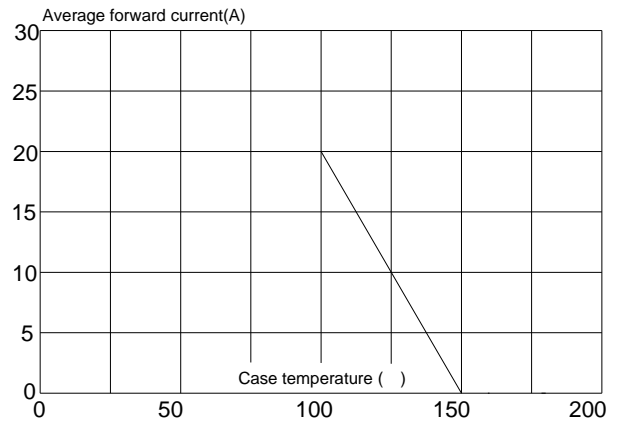


FIG.4: Forward current derating curve



JieJie products are not designed for, and shall not be used for, any purpose (including, without