JIEJIE MICROELECTRONICS CO., LTD.

JEER1006V EPI SUPERFAST SOFT RECOVERY RECTIFIER

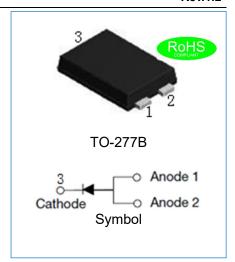
Rev.1.2

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-277B molded plastic over passivated junction
- Terminals: Solder plated, solderable per J-STD-002



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

Parameter	Symbol	JEER1006V	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	600	V
Maximum RMS voltage	VRMS	420	V
Maximum DC blocking voltage	V _{DC}	600	V
Average forward current at T _L =85℃	I _{F(AV)}	10	Α
Peak forward surge current:8.3ms single half sine-wave superimposed on rated load	I _{FSM}	150	А
Junction temperature and storage temperature range	T_j, T_{stg}	-55 to +150	$^{\circ}$

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

Parameter			Min.	Тур.	Max.	Unit
Forward voltage	I _F =10A,T _j =25℃	V_{F}	-	-	1.8	V
DC reverse current	T _j =25℃	· I _R	-	-	5	μΑ
at rated DC blocking voltage	T _j =150℃		-	-	300	
Reverse recovery time	I _F =0.5A,I _R =1A, I _{rr} =0.25A	4	-	30	-	ns
	I _F =1A,di/dt=50A/us, V _R =30V	t _{rr}	-	40	-	



THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
R _{th(j-a)}	Thermal resistance from junction to ambient	-	100	-	°C/W

MARKING



EER	EPI Superfast Recovery Rectifier
10	I _{F(AV)} =10A
06	V _{RRM} :600V
V	Package:TO-277B

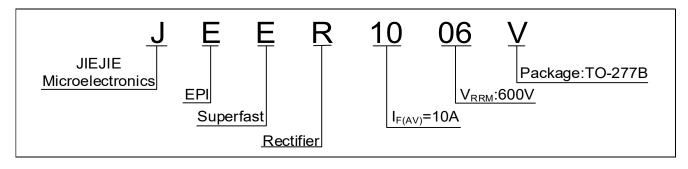
<u>x</u>H1: Month, 1/2/3~9/A/B/C

3**x**1:

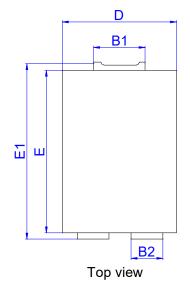
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	N
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

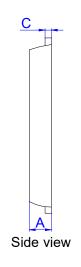
3Hx: Batch number

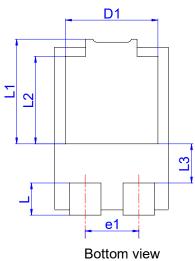
ORDERING INFORMATION



PACKAGE MECHANICAL DATA





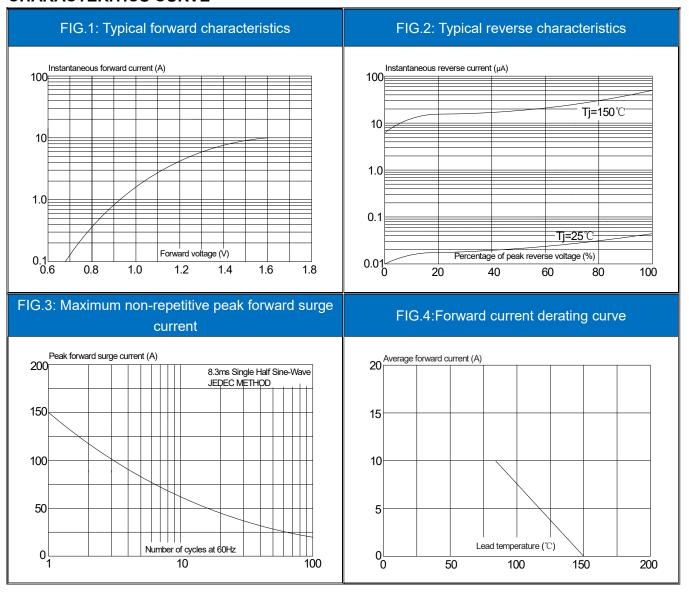


Course had	Millimeters		Inches		
Symbol	Min	Max	Min	Max	
E1	6.40	6.60	0.252	0.260	
Е	5.60	5.80	0.220	0.228	
D	4.10	4.30	0.161	0.169	
B1	1.70	1.90	0.067	0.075	
B2	0.80	1.00	0.031	0.039	
А	1.05	1.20	0.041	0.047	
С	0.30	0.40	0.012	0.016	
L	0.85	1.10	0.033	0.043	
L1	4.20	4.40	0.165	0.173	
L2	3.52Typ.		0.139Тур.		
L3	1.10	1.40	0.043	0.055	
D1	3.00	3.30	0.118	0.130	
e1	1.86Тур.		0.073	ЗТур.	

PACKAGE INFORMATION-TO-277B

PART No.	REEL (PCS)	PER CARTON (PCS)	DESCRIPTION
JEER1006V	5,000	80,000	13 inch reel pack

CHARACTERITICS CURVE





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