



JPUR1512EW

EPI PLANAR ULTRAFAST SOFT RECOVERY RECTIFIER

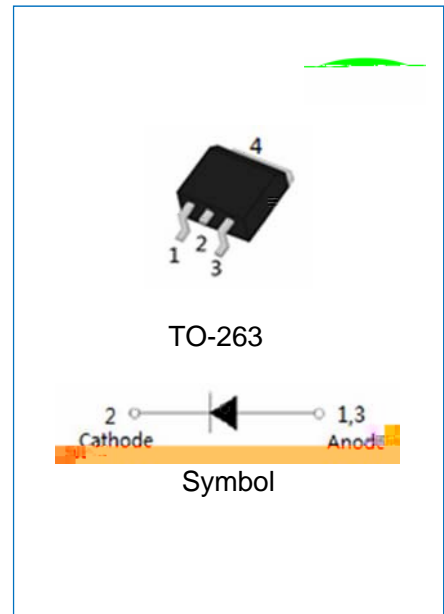
Rev.1.1

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
- ✧ Ultrafast recovery time
- ✧ Epitaxial planar technology
- ✧ 5th Generation soft fast 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	JPUR1512EW	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	1200	V
Maximum DC blocking voltage	V_{DC}	1200	V
Average forward current at $T_C=115$	$I_{F(AV)}$	15	A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	220	A
Peak forward surge current: 10ms single half sine-wave superimposed on rated load	I_{FSM}	200	A
Junction temperature and storage temperature range	T_j, T_{stg}	-55 to +175	

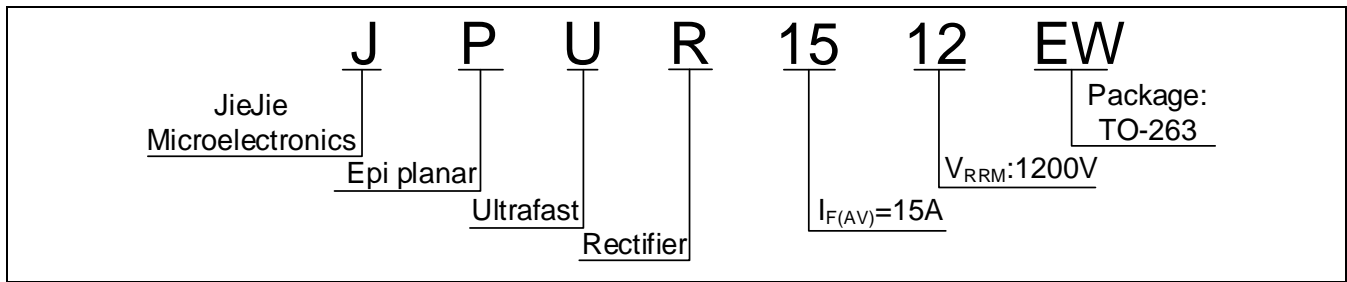
Electrical Characteristics

Parameter		Symbol	Min.			
Forward voltage	$I_F=15A, T_j=25$	V_F	-	2	2.4	V
	$I_F=15A, T_j=150$		-	1.45	2	
Reverse current	$V_R=1200V, T_j=25$	I_R	-	-	5	μA
	$V_R=1200V, T_j=150$		-	-	300	

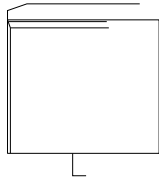
$I_F=1A, V_R=30V, \frac{di}{dt}=200A/\mu s, T=30V, T=30V, 0.145, 2 \dots$
 $di/dt=200A/\mu s, T=30V, 4, 3$

Reverse recovery time

ORDERING INFORMATION



PACKAGE MECHANICAL DATA



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	9.90		10.20	0.390		0.402
B	14.70		15.80	0.579		0.622
C	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			
H	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		0.25			
M	1.17		1.37			



TAPE AND REEL SPECIFICATION-TO-263

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
W	23.70	24.00	24.30			
E	1.65	1.75	1.85			
F	11.40	11.50	11.60			
D0	-	1.50	1.60			
D1		1.50	1.60			
P0	3.90	4.00	4.10			
P1	15.90	16.00	16.10			
P2	1.90	2.00	2.10			
A0	10.80	10.90	11.00			
B0	16.20	16.30	16.40			
K0		4.90	5.00			
t						

CHARACTERISTICS CURVE

FIG.1 Typical forward characteristics

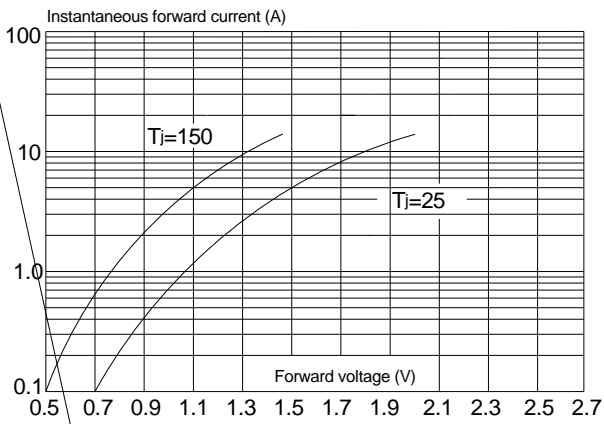


FIG.2 Typical reverse characteristics

