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 and soft recovery characteristics
Low recovery loss

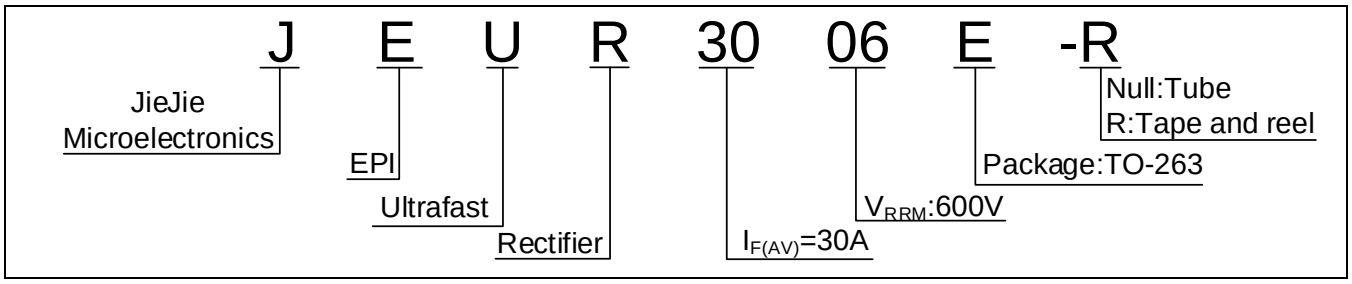
Case: TO-263 molded plastic over passivated junction
Terminals: Solder plated, solderable per J-STD-002
Weight:1.55 gram

(Rating at 25 ambient temperature unless otherwise spe µ u®

Maximum DC blocking voltage	V_{DC}	600	V
Average forward current at T_{mb}=122	$I_{F(AV)}$	30	A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	330	A
Peak forward surge current: 10ms single half sine-wave superimposed on rated load		300	
Junction temperature and storage temperature range	T_j,T_{stg}	-55 to +150	

(Rating at 25 ambient temperature unless otherwise specified.)

Forward voltage	I_F=30A,T_j=25	V_F	-	1.18	1.55	V
	I_F=30A,T_j=150		-	0.98	1.35	
Reverse current	V_R=600V,T_j=25	I_R	-	-	5	uA
	V_R=600V,T_j=150		-	-	300	
Reverse recovery time	I_F=1A;V_R=30V; dI$_F$/dt=50A/μs;T_j=25	t_{rr}	-	42	75	ns
	I_F=30A;V_R=400V; dI$_F$/dt=200A/μs;T_j=25		-	65	-	
	I_F=30A;V_R=400V; dI$_F$/dt=200A/μs;T_j=125		-	101	-	
Peak reverse recovery current	I_F=30A;V_R=400V; dI$_F$/dt=200A/μs;T_j=25	I_{RM}	-	8.4	-	A
	I_F=30A;V_R=400V; dI$_F$/dt=200A/μs;T_j=125	dI	-	15.2		


J
E
U
R
30
06
E
-R
JieJie
Microelectronics
EPI
Ultrafast
Rectifier
$I_{F(AV)}$=30A
V_{RRM}:600V
Package:TO-263
Null:Tube
R:Tape and reel

PART No.	UNIT WEIGHT (g/PCS) TYP	TUBE (PCS)	PER CARTON (PCS)

FIG.1 Typical forward characteristics

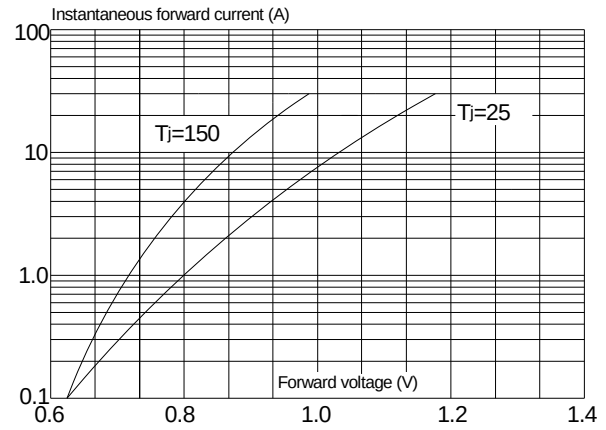


FIG.2 Typical reverse characteristics

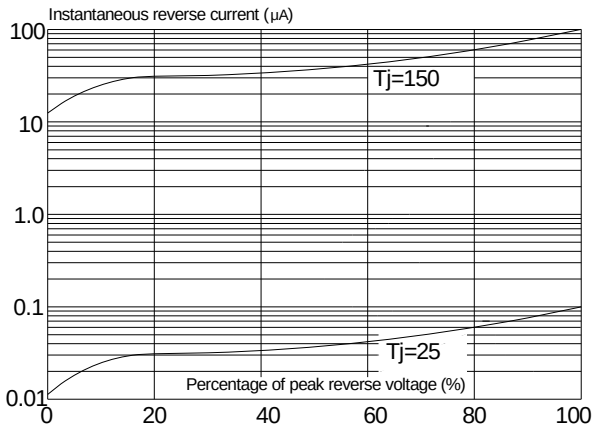


FIG.3 Maximum non-repetitive peak forward surge current(10ms single half sine-wave)

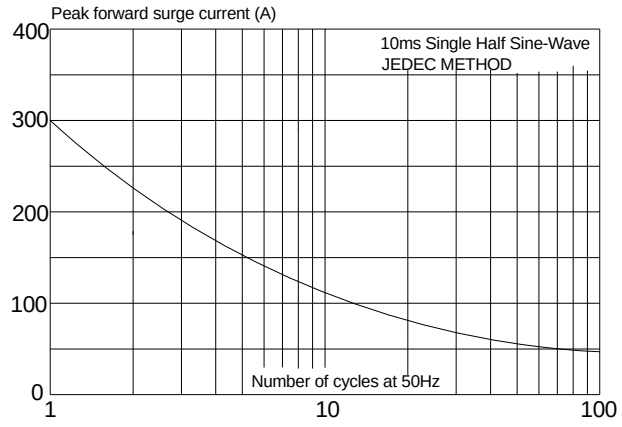


FIG.4 Maximum non-repetitive peak forward surge current(8.3ms single half sine-wave)

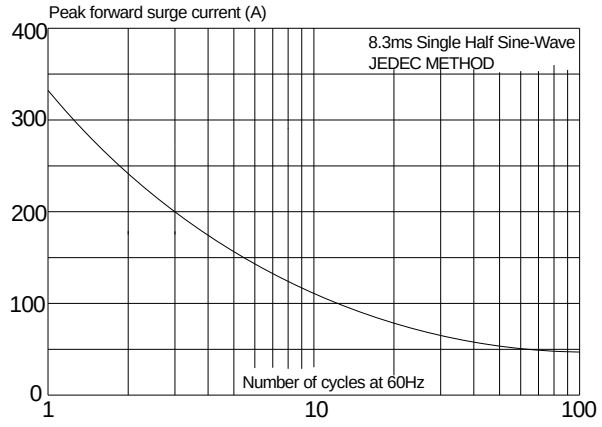
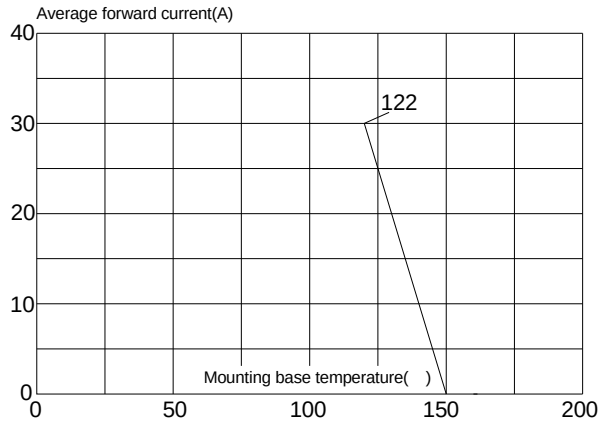
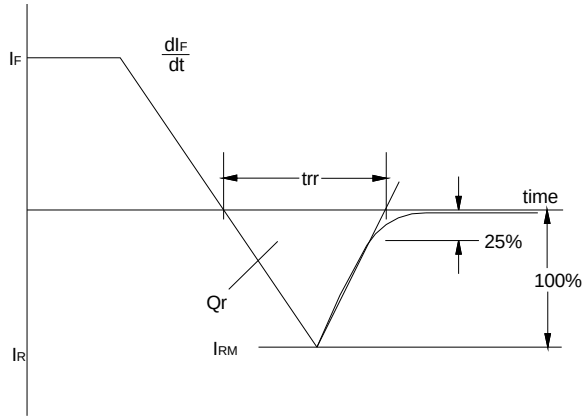


FIG.5: Forward current derating curve	FIG.6: Reverse recovery definitions
	

JieJie products are not designed for, and shall not be used for, any purpose (including, without limitation, automotive, military, aerospace, medical, life-saving, life-sustaining or nuclear facility applications, devices intended for surgical implant into the body, or any other application in which the failure or lack of desired operation of the product may result in personal injury, death, or property damage) other than those expressly set forth