



JEFR0408G2

EPI FAST SOFT RECOVERY RECTIFIER

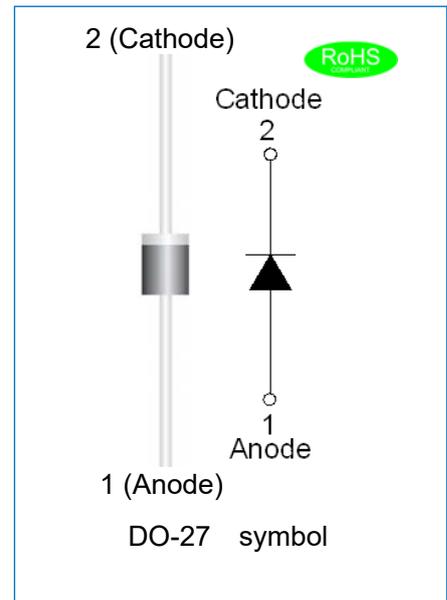
Rev.1.4

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
- ✧ Fast recovery time and soft recovery characteristics
- ✧ Low recovery loss
- ✧ Applications for use in switching power supplies, inverters and as free wheeling diodes

MECHANICAL DATA

- ✧ Case: DO-27 molded plastic
- ✧ Terminals: Solder plated, solderable per J-STD-002
- ✧ Polarity: Color band denotes cathode end



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

Parameter	Symbol	JEFR0408G2	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	800	V
Maximum RMS voltage	V_{RMS}	560	V
Maximum DC blocking voltage	V_{DC}	800	V
Average forward current at $T_A=35^\circ\text{C}$	$I_{F(AV)}$	4	A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	125	A
Junction temperature and storage temperature range	T_j, T_{stg}	-55 to +150	°C

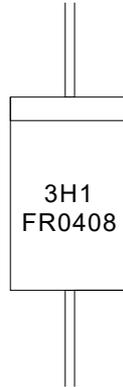
ELECTRICAL CHARACTERISTICS (Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Forward voltage	V_F	-	-	1.53	V
				$I_F=3\text{A}, T_j=150^\circ\text{C}$	
				$I_F=3\text{A}, T_j=25^\circ\text{C}$	
Reverse current	I_R	-	-	5	μA
				$V_R=800\text{V}, T_j=25^\circ\text{C}$	
Reverse recovery time	t_{rr}	-	-	75	ns
				$I_F=0.5\text{A}, I_R=1\text{A}, I_{REC}=0.25\text{A}$	
				100	

THERMAL RESISTANCES

Symbol	Parameter	Min.	Typ.	Max.	Unit
$R_{th(j-a)}$	Thermal resistance from junction to ambient free air	-	38	-	°C/W

MARKING



FR	Fast Recovery Rectifier
04	$I_{F(AV)}=4A$
08	$V_{RRM}:800V$

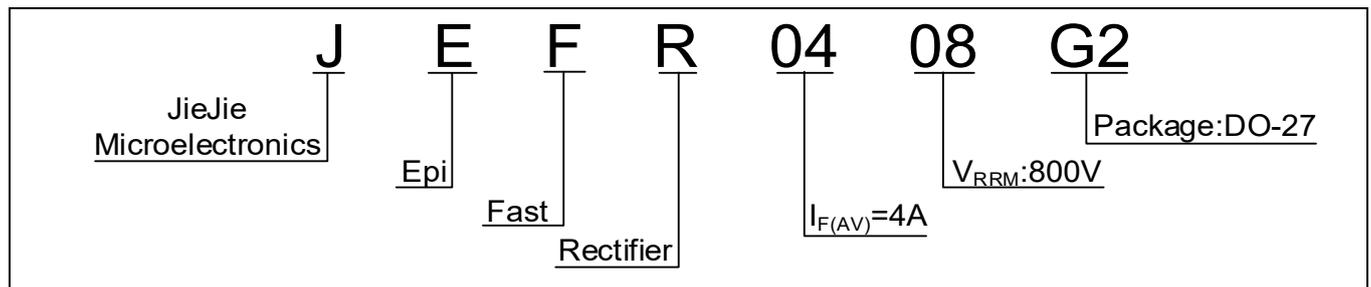
$\underline{x}H1$: Month, 1/2/3~9/A/B/C

$3\underline{x}1$:

2018	2019	2020	2021	2022	2023	2024
H	I	J	K	L	M	N
2025	2026	2027	2028	2029	2030	...
O	P	Q	R	S	T	...

$3H\underline{x}$: Batch number

ORDERING INFORMATION



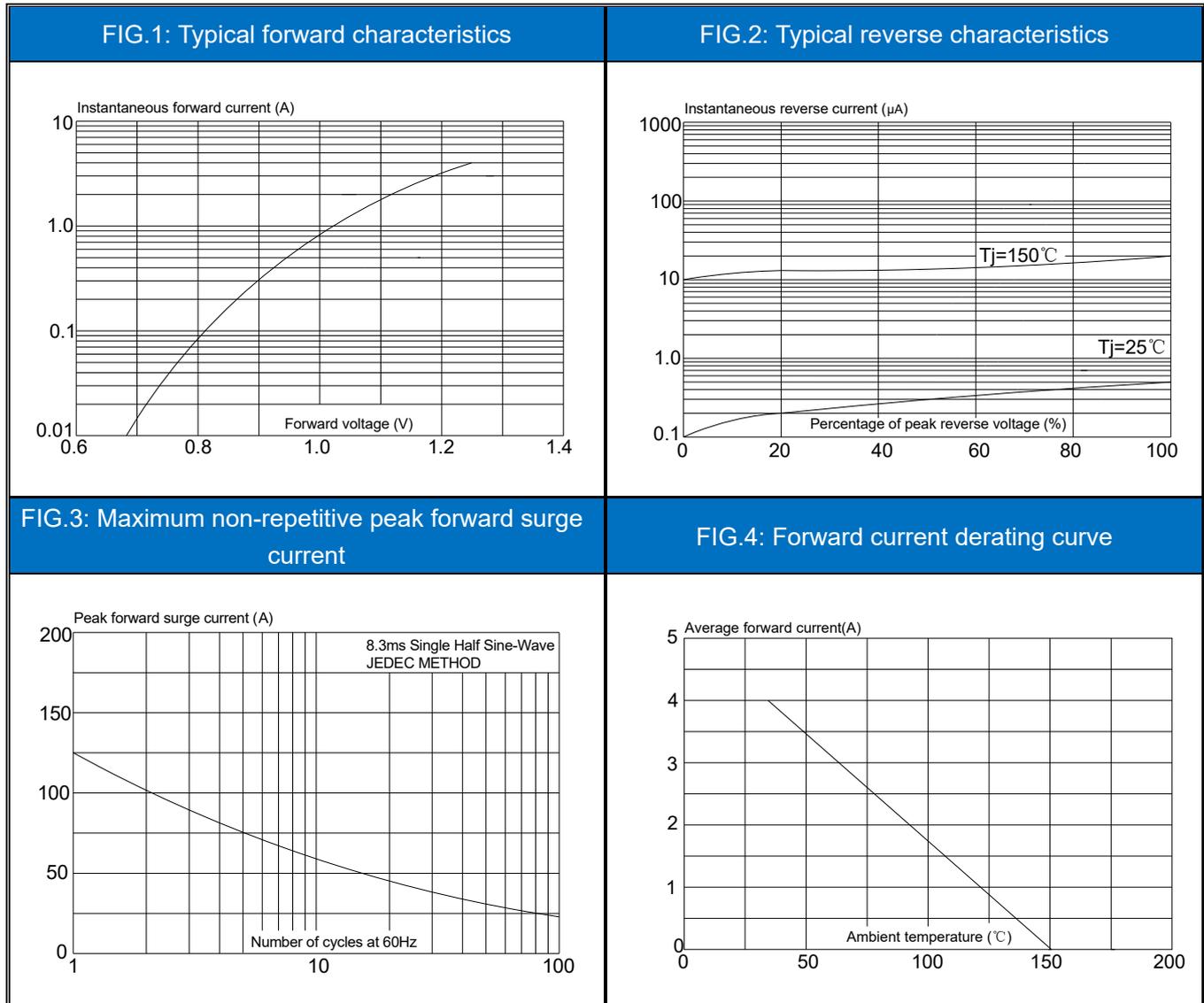
PACKAGE MECHANICAL DATA

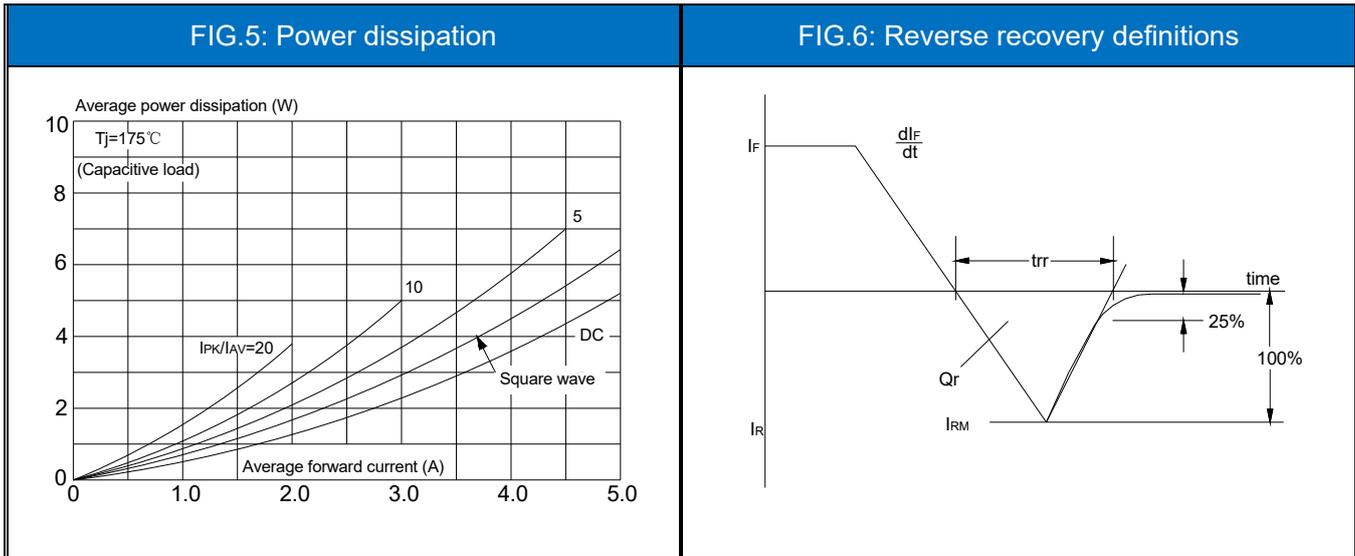
Ref.	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	24.00	-	0.945	-
B	8.50	9.50	0.335	0.375
C	1.15	1.45	0.045	0.057
D	4.90	5.50	0.193	0.217

PACKAGE INFORMATION-DO-27

OUTLINE	UNIT WEIGHT (g/PCS) TYP	INNER BOX (PCS)	PER CARTON (PCS)
Bulk	1.142	1,000	10,000

CHARACTERISTICS CURVE





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