



**JEUR1006K**  
**ULTRAFast RECOVERY RECTIFIER**

Rev.1.6

**DESCRIPTION**

Plastic package has underwriters laboratory flammability classification 94V-0  
For surface mounted applications  
Glass passivated chip junction  
Lead free in comply with EU RoHS 2011/65/EU directives  
Ultrafast recovery time for high efficiency  
Applications for discontinuous current mode (DCM) power factor correction (PFC), Home appliance power supply



**MECHANICAL DATA**

Case: TO-252 molded plastic  
Terminals: Solder plated, solderable per J-STD-002  
Weight: 0.329 gram

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

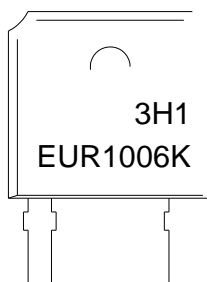
**ELECTRICAL CHARACTERISTICS**(Rating at 25 ambient temperature unless otherwise specified.)

Parameter		Symbol	Min.	Typ.	Max.	Unit
Forward voltage	$I_F=10A, T_j=25$	$V_F$	-	1.25	1.5	V
	$I_F=10A, T_j=150$		-	1.0	1.3	
Reverse current	$V_R=600V, T_j=25$	$I_R$	-	-	5	$\mu A$
	$V_R=600V, T_j=150$		-	-	200	
Reverse recovery time	$I_F=1A, V_R=30V,$ $di/dt=100A/\mu s, T_j=25$	$t_{rr}$	-	40	75	ns
	$I_F=0.5A, I_R=1A, I_{rr}=0.25A$		-	-	50	
Peak reverse recovery current	$I_F=1A, V_R=30V,$ $di/dt=50A/\mu s, T_j=25$	$I_{RM}$	-	1.9	-	A
	$I_F=1A, V_R=30V,$ $di/dt=100A/\mu s, T_j=25$		-	2.8	-	
Recovered charge	$I_F=1A, V_R=30V,$ $di/dt=100A/\mu s, T_j=25$	$Q_r$	-	55	-	nC

**THERMAL RESISTANCES**

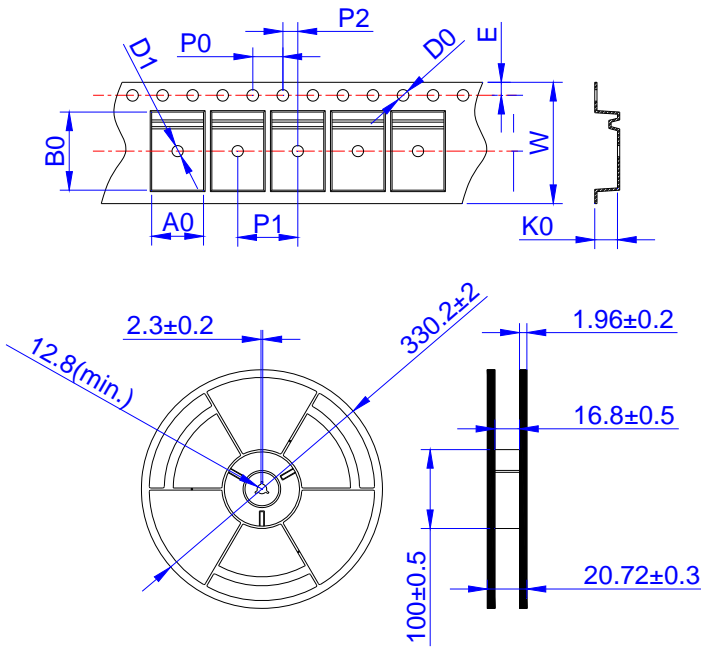
Symbol	Parameter	Min.	Typ.	Max.	Unit
$R_{th(j-mb)}$	Thermal resistance from junction to mounting base	-	-	2.4	$/W$
$R_{th(j-a)}$	Thermal resistance from junction to ambient	-	60	-	$/W$

**MARKING**



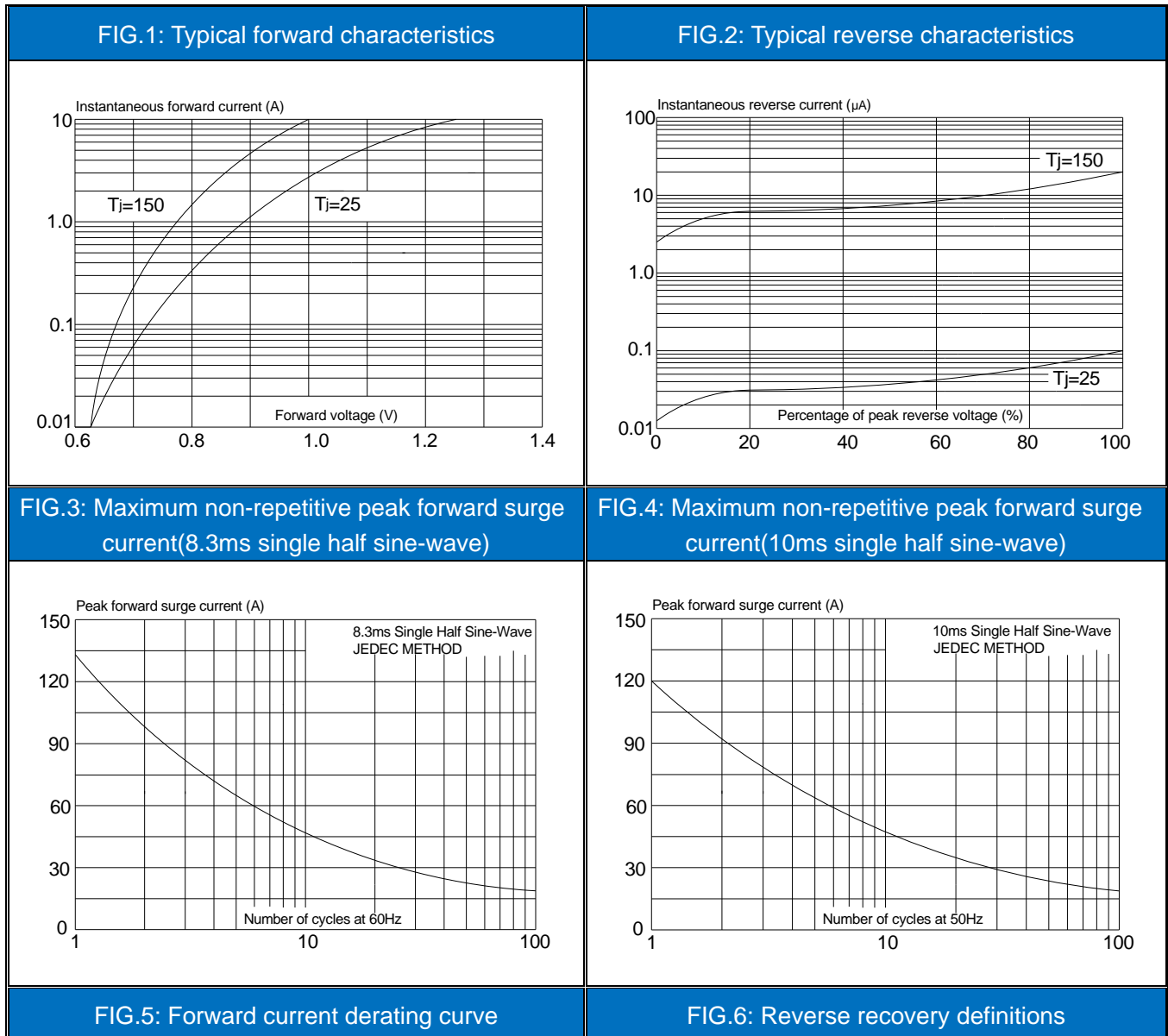


REEL SPECIFICATION TO 252



Ref.	Dimensions	
	Millimeters	Inches
W	Max:16.3	Max:0.642
E	1.75±0.10	0.069±0.004
F	7.50±0.10	0.295±0.004
D0	1.55±0.05	0.061±0.002
D1	Min:1.50	Min:0.059
P0	4.00±0.10	0.157±0.004
P1	8.00±0.10	0.315±0.004
P2	2.00±0.10	0.079±0.004
A0	6.90±0.10	0.272±0.004
B0	10.50±0.10	0.413±0.004
K0	2.70±0.10	0.106±0.004
T	0.30±0.05	0.012±0.002

CHARACTERISTICS CURVE



0 40 80 12

