



JEUR2006FPCT EPI ULTRAFast RECOVERY RECTIFIER

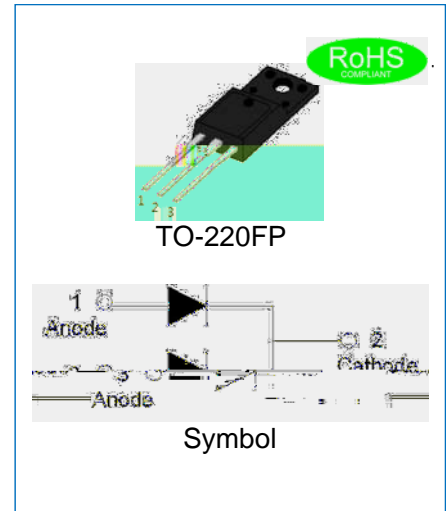
Rev.1.3

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 and soft recovery characteristics
- Low recovery loss

MECHANICAL DATA

- Case: TO-220FP molded plastic over passivated junction
- Terminals: Solder plated, solderable per J-STD-002
- Weight:2.07 gram



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

Parameter	Symbol	JEUR2006FPCT	Unit
Peak forward current	$I_{F(AV)}$	20	A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load(per diode)	I_{FSM}	150	A
Junction temperature and storage temperature range	T_j, T_{stg}	-55 to +150	

ISOLATION CHARACTERISTICS

Symbol	Parameter	Conditions	Min.	Typ.	Max.	Unit
$V_{isol(RMS)}$	RMS isolation voltage	50Hz f 60Hz;RH 65%; from all pins to external heatsink; sinusoidal waveform; clean and dust free	-	-	2500	V
C_{isol}	Isolation capacitance	from cathode to external heatsink	-	10	-	pF



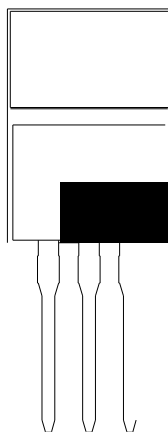
ELECTRICAL CHARACTERISTICS(Rating at 25 case temperature unless otherwise specified.)

Parameter		Symbol	Min.	Typ.	Max.	Unit
Forward voltage	$I_F=10A, T_j=25$	V_F		-	1.5	V
Reverse current	$V_R=600V, T_j=25$	I_R	-	-	5	μA
	$V_R=600V, T_j=150$		-	-	200	
Reverse recovery time	$I_F=0.5A, I_R=1A, I_{rr}=0.25A$	t_{rr}	-	-	50	ns

THERMAL RESISTANCES

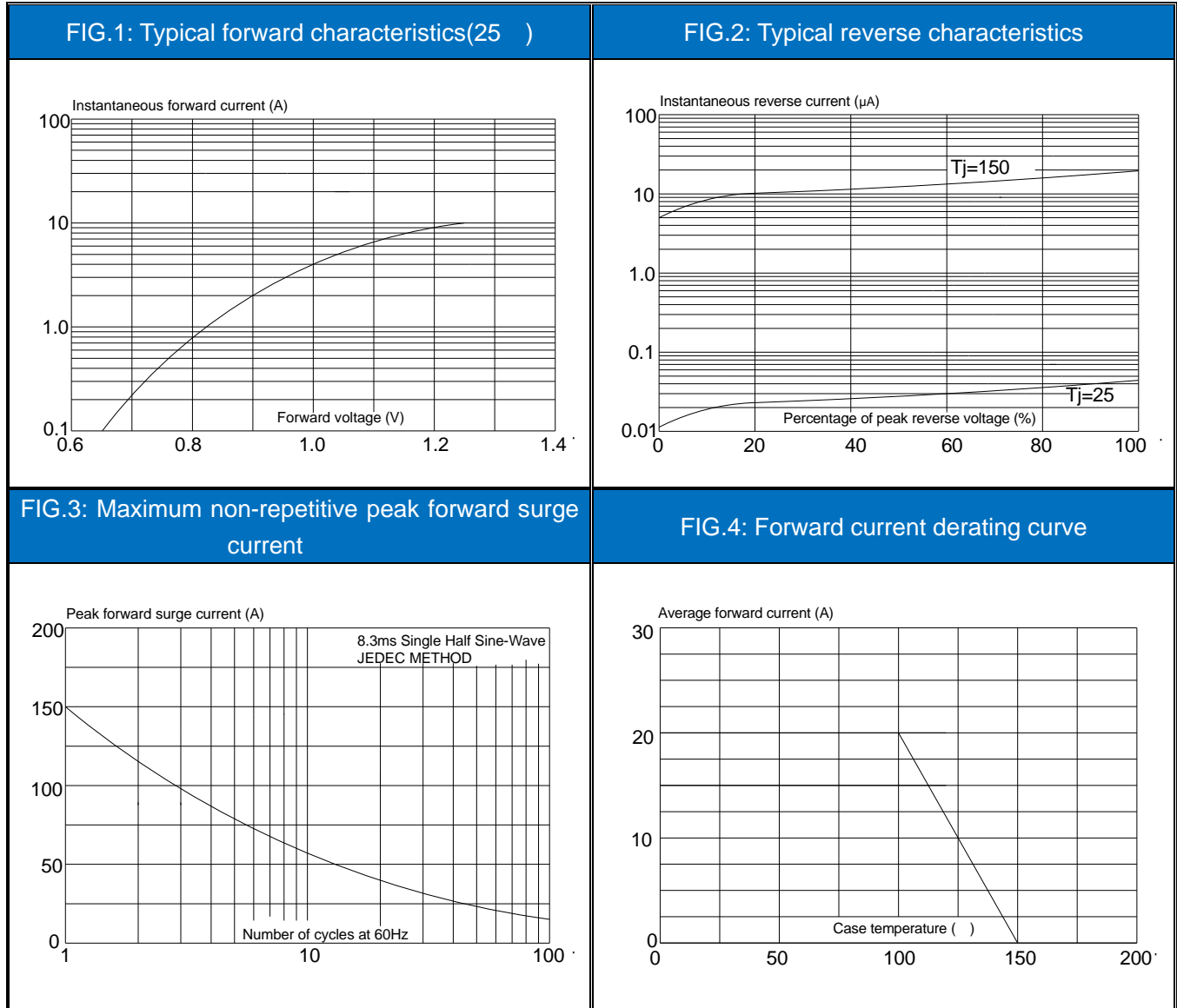
Symbol	Parameter	Min.	Typ.	Max.	Unit
$R_{th(j-c)}$	Thermal resistance from junction to case	-	3.6	-	$^{\circ}W$

MARKING





CHARACTERISTICS CURVE





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