

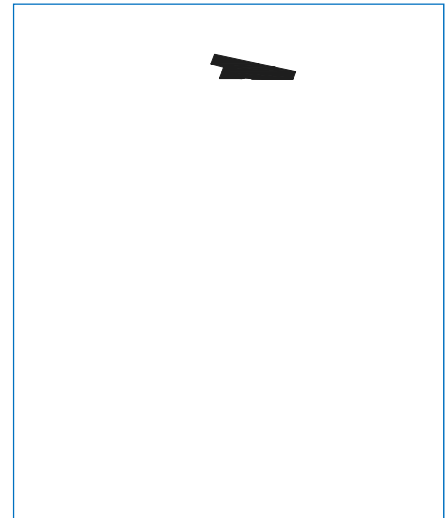


JEFR8006SCT EPI FAST RECOVERY RECTIFIER

Rev.1.6

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



MECHANICAL DATA

Case: TO-247J molded plastic over passivated junction
 Terminals: Solder plated, solderable per J-STD-002
 Weight:6 gram

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

Parameter	Symbol	JEFR8006SCT	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	600	V
Maximum DC blocking voltage	V_{DC}	600	V
Average forward current at $T_C=125$	$I_{F(AV)}$	80	A

Peak forward surge current: 10ms single half sine-wave superimposed on rated load(per diode) C

	$f=150$					
Reverse recovery time	$I_F=0.5A, I_R=1A, I_{RR}=0.25A$	t_{rr}	-	-	400	ns

THERMAL RESISTANCES

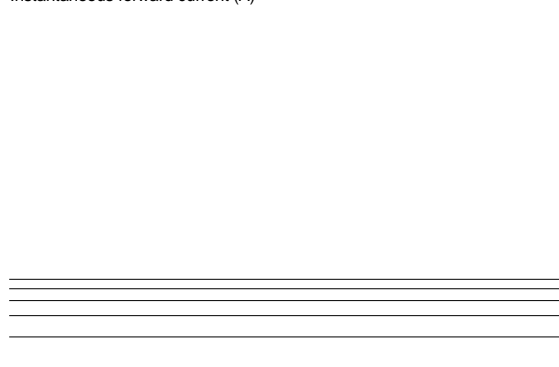
Symbol	Parameter	Min.	Typ.	Max.	Unit
$R_{th(j-c)}$	Thermal resistance from junction to case	-	0.5	-	/W
$R_{th(j-a)}$	Thermal resistance from junction to ambient	-	45	-	

CHARACTERISTICS CURVE

FIG.1: Typical forward characteristics

FIG.2: Typical reverse characteristics

Instantaneous forward current (A)




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