

MECHANICAL DATA

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

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

Parameter	Symbol	JEER1004ECT	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	400	V
Average forward current at $T_C=100$	$I_{F(AV)}$	10	A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load(per diode)	I_{FSM}	75	A
Junction temperature and storage temperature range	T_j, T_{stg}	-55 to +150	

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

Parameter	Symbol	Min.	Typ.	Max.	Unit
Forward voltage	$I_F=5\text{A}$				

Reverse recovery time	$I_F=0.5\text{A}, I_R=1\text{A}, I_{rr}=0.25\text{A}$	t_{rr}	-	-	35	ns
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				Max.	Unit
$R_{th(j-c)}$	Thermal resistance from junction to case	-	2.0	-	/W

JEER1004ECT

FIG.3: Maximum non-repetitive peak forward surge current

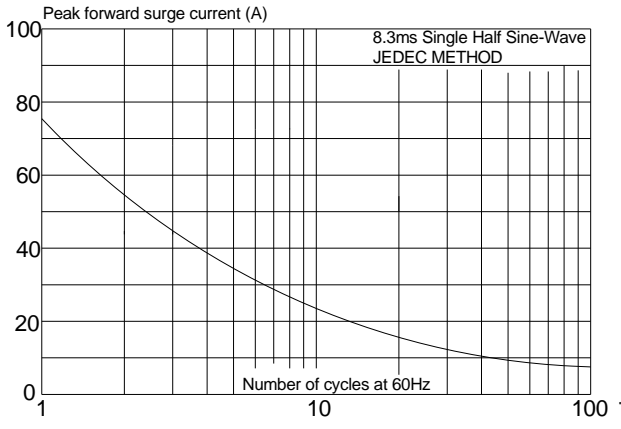
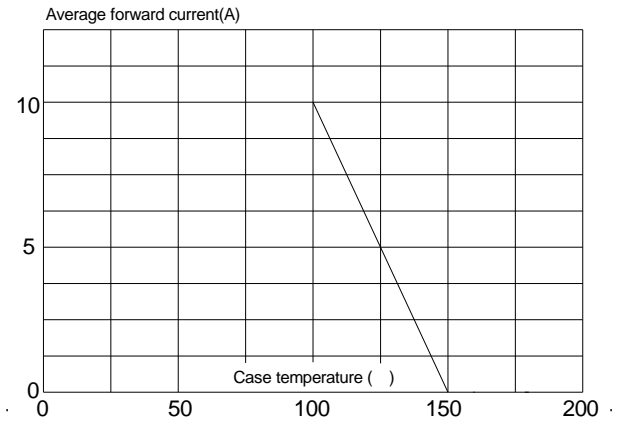


FIG.4: Forward current derating curve



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