

4. Absolute maximum ratings

No.	Item	Symbol	Unit	Rating	Conditions
1	Transient Peak Reverse Voltage	V_{RSM}	V	200	
2	Peak Reverse Voltage	V_{RM}	V	200	
3	Average Forward Current	$I_{F(AV)}$	A	10	$T_c=105^{\circ}\text{C}$, sinewave
4	Peak Surge Forward Current	I_{FSM}	A	150	10msec. Half sinewave, one shot
5	I^2t Limiting Value	I^2t	A^2s	112.5	
6	Junction Temperature	T_j	$^{\circ}\text{C}$	$-40\sim+150$	
7	Storage Temperature	T_{stg}	$^{\circ}\text{C}$	$-40\sim+150$	
8	Screwing Torque		$\text{N}\cdot\text{m}$	0.59	
9	Dielectric Strength		kV	A.C. 1.0	Junction and case (1 min.)

5. Electrical characteristics ($T_a=25^{\circ}\text{C}$, unless otherwise specified)

No.	Item	Symbol	Unit	Value	Conditions
1	Forward Voltage Drop	V_F	V	0.98 max.	$I_F=10\text{A}$
2	Reverse Leakage Current	I_R	μA	200 max.	$V_R=V_{RM}$
3	Reverse Leakage Current Under High Temperature	$H\cdot I_R$	μA	400 max.	$V_R=V_{RM}$, $T_j=150^{\circ}\text{C}$
4	Reverse Recovery Time	trr1	ns	40 max.	$I_F=I_{RP}=500\text{mA}$, 90% Recovery point, $T_j=25^{\circ}\text{C}$
		trr2	ns	30 max.	$I_F=500\text{mA}$, $I_{RP}=1.0\text{A}$, 75% Recovery point, $T_j=25^{\circ}\text{C}$
5	Thermal Resistance	$R_{th(j-c)}$	$^{\circ}\text{C}/\text{W}$	4.0 max.	Between Junction and case

6. Derating Curve



