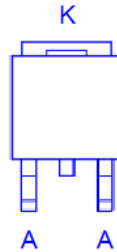




PRODUCT SUMMARY

$I_{F(AV)}$	10A
V_{RRM}	100V
I_{FSM}	120A
$V_{F(typ)}$	0.63V
$T_{j(max.)}$	150°C



A : Anode
K : Cathode

ABSOLUTE MAXIMUM RATINGS

PARAMETERS/TEST CONDITIONS	SYMBOL	LIMITS	UNITS
Maximum Repetitive Reverse Voltage	V_{RRM}	100	V
Average Rectifier Forward Current Total Device (Rated VR)	$I_{F(av)}$	10	A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load per diode	I_{FSM}	120	
Operating Junction and Storage Temperature Range	T_j, T_{STG}	-55 to +150	°C

THERMAL RESISTANCE RATING

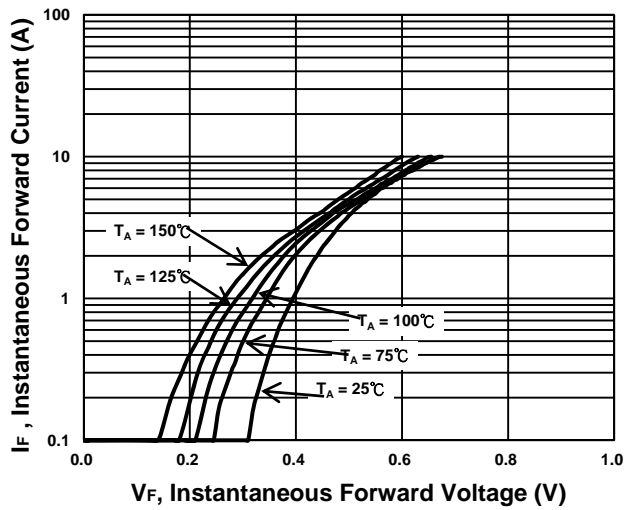
THERMAL RESISTANCE	SYMBOL	LIMITS	UNITS
Typical Thermal Resistance	$R_{\theta JC}$	2.5	°C/W

ELECTRICAL CHARACTERISTICS

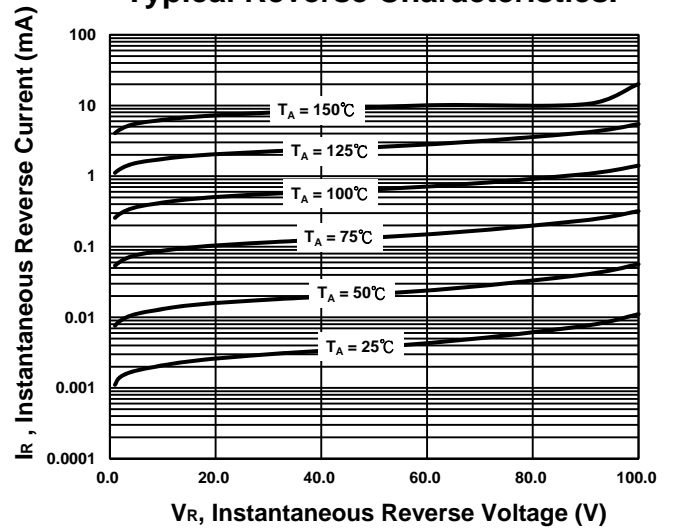
PARAMETER	SYMBOL	TYP	MAX	UNIT
Breakdown voltage $I_R = 1 \text{ mA}, T_A = 25^\circ\text{C}$	V_{BR}	100(min)		V
Instantaneous Forward Voltage $I_F = 5 \text{ A}, T_A = 25^\circ\text{C}$ $I_F = 5 \text{ A}, T_A = 125^\circ\text{C}$ $I_F = 10 \text{ A}, T_A = 25^\circ\text{C}$ $I_F = 10 \text{ A}, T_A = 125^\circ\text{C}$	V_F	0.53 0.5 0.67 0.63	0.59 0.56 0.75 0.7	V
Instantaneous Reverse Current ⁽¹⁾ $V_R = 100\text{V}, T_A = 25^\circ\text{C}$ $V_R = 100\text{V}, T_A = 125^\circ\text{C}$	I_R	6	800 50	uA mA

⁽¹⁾Short duration pulse test used to minimize self-heating effect.

Typical Forward Characteristics



Typical Reverse Characteristics



Forward Current Derating Curve

