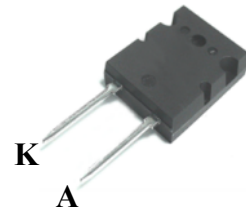
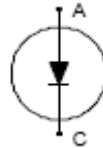


**PRELIMINARY DATASHEET**
**Fast Recovery 1200V, 75A Diode  
In TO264 Package**

- Fast and soft reverse-recovery
- Ultra low loss
- Highly rugged design
- Pb-free lead finish; RoHS compliant


**MAXIMUM RATINGS**, at  $T_j = 25^\circ\text{C}$ , unless otherwise specified

Parameter	Symbol	Value	Units
Repetitive peak reverse voltage	$V_{RRM}$	1200	V
Continuous forward current $T_C = 100^\circ\text{C}$	$I_F$	75	A
Maximum repetitive forward current Limited by $T_{jmax}$	$I_{FRM}$	150	
Operating junction and storage temperature	$T_j, T_{stg}$	-40... +150	$^\circ\text{C}$

**Thermal Resistance**

Parameter	Symbol	Max. Value	Units
<b>Characteristics</b>			
Thermal resistance, junction to case	$R_{thJC}$	0.4	K/W

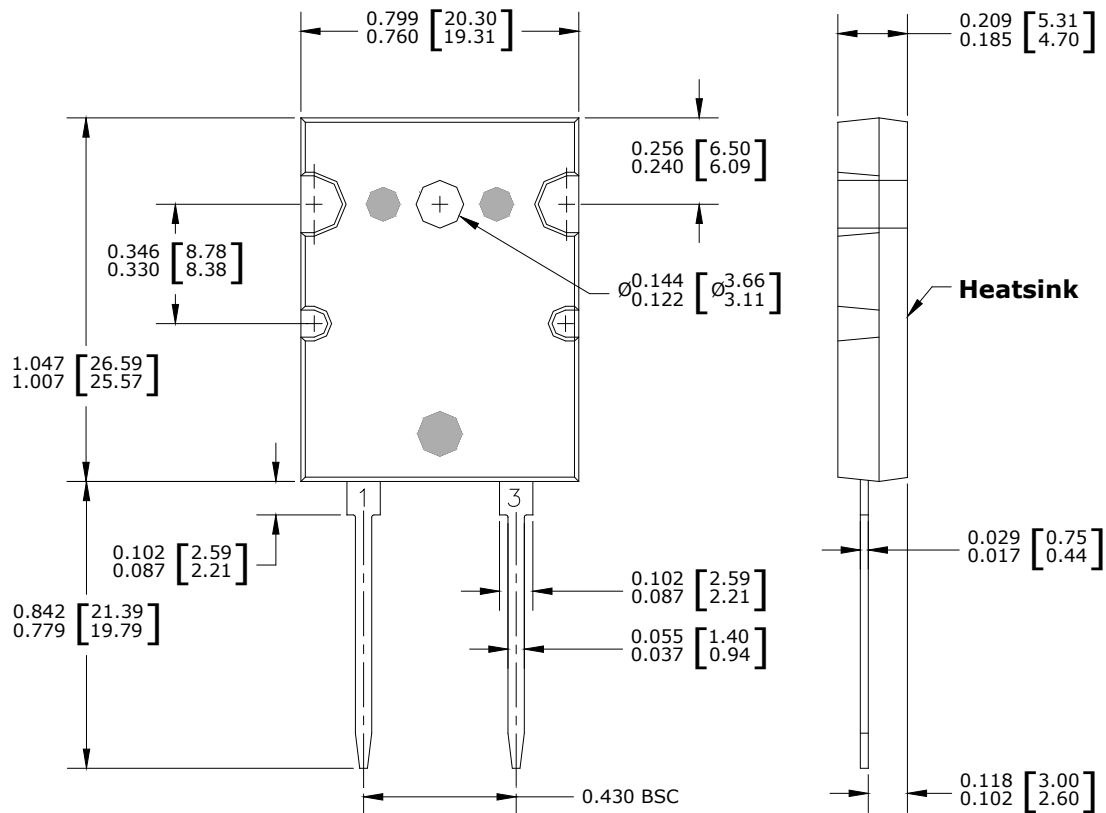
**Electrical Characteristics**, at  $T_j = 25^\circ\text{C}$ , unless otherwise specified

Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
<b>Static Characteristics</b>					
Reverse leakage current $V_R = 1200\text{V}$ $V_R = 1200\text{V}, T_j = 125^\circ\text{C}$	$I_R$	-	-	100	$\mu\text{A}$
Forward voltage drop $I_F = 75\text{A}$ $I_F = 75\text{A}, T_j = 125^\circ\text{C}$	$V_F$	-	1.8	-	V
		-	1.85	-	

**Electrical Characteristics**, at  $T_j = 25^\circ\text{C}$ , unless otherwise specified

Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
<b>Dynamic Characteristics</b>					
Reverse recovery time $V_R = 600\text{V}, I_F = 75\text{A}, di_F/dt = 1600\text{A}/\mu\text{s}$ $T_j = 25^\circ\text{C}$ $T_j = 125^\circ\text{C}$	$t_{rr}$	-	250	-	ns
		-	360	-	
Peak reverse current $V_R = 600\text{V}, I_F = 75\text{A}, di_F/dt = 1600\text{A}/\mu\text{s}$ $T_j = 25^\circ\text{C}$ $T_j = 125^\circ\text{C}$	$I_{rrm}$	-	65	-	A
		-	85	-	
Reverse recovery charge $V_R = 600\text{V}, I_F = 75\text{A}, di_F/dt = 1600\text{A}/\mu\text{s}$ $T_j = 25^\circ\text{C}$ $T_j = 125^\circ\text{C}$	$Q_{rr}$	-	10	-	$\mu\text{C}$
		-	19	-	

**Package Outline Drawing**



**Disclaimer**

These specifications may not be considered as a guarantee of components characteristics. Components have to be tested depending on intended application as adjustments may be necessary. The use of **iQXPRZ Power Inc.** components in life support appliances and systems are subject to written approval of **iQXPRZ Power Inc.**