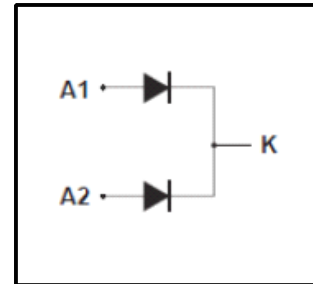


*Silicon Controlled Rectifiers*

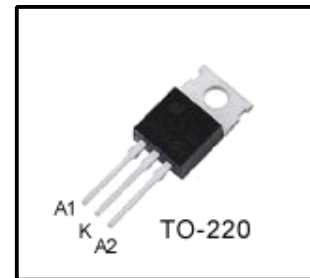
**Features**

- 10A(2×5A),150V
- $V_{F(max)}=0.72V(@T_J=125^{\circ}C)$
- Low power loss,high efficiency
- Common cathode structure
- Guard ring for over voltage protection, High reliability
- Maximum Junction Temperature Range(175°C)



**General Description**

Dual center tap Schottky rectifiers suited for High frequency switch power supply and Free wheeling diodes, polarity protection applications.



**Absolute Maximum Ratings**

Symbol	Parameter	Value	Units
$V_{DRM}$	Repetitive Peak reverse Voltage	150	V
$V_{DC}$	Maximum DC blocking Voltage	150	V
$I_{F(RMS)}$	RMS forward Current	10	A
$I_{F(AV)}$	Average forward current	Per diode	5
		Per device	10
$I_{FSM}$	Surge non repetitive forward current	150	A
$I_{RRM}$	Repetitive peak reverse current	1	A
dv/dt	Critical rate of rise of reverse voltage	10000	V/ns
$T_J$	Junction Temperature	175	°C
$T_{STG}$	Storage Temperature	-40~150	°C

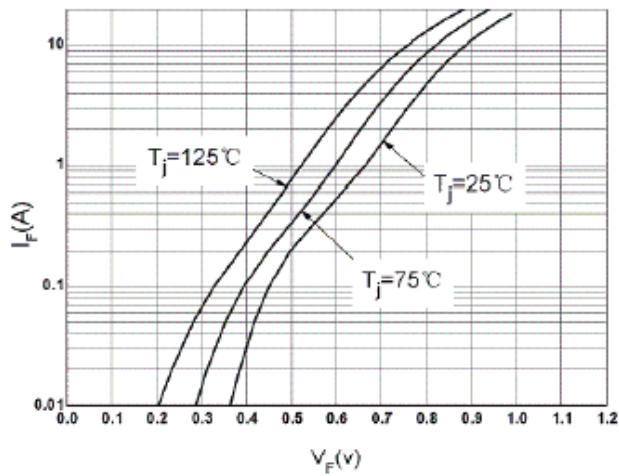
**Thermal Characteristics**

Symbol	Parameter	Value			Units
		Min	Typ	Max	
$R_{QJC}$	Thermal Resistance Junction to Case	-	-	2.2	°C/W

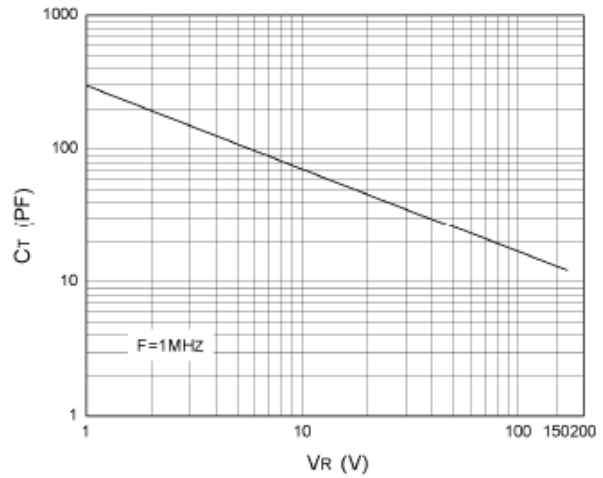
Electrical Characteristics (per diode)

Characteristics	Symbol	Test Conditions		Min	Typ	Max	Units
Reverse leakage current	$I_R$	$V_R=V_{RRM}$	$T_j=25^\circ\text{C}$	-	-	10	$\mu\text{A}$
			$T_j=125^\circ\text{C}$	-	-	4.5	$\text{mA}$
Forward voltage drop	$V_F$	$I_F=5\text{A}$	$T_j=25^\circ\text{C}$	-	0.81	0.9	V
			$T_j=125^\circ\text{C}$	-	0.67	0.72	
		$I_F=10\text{A}$	$T_j=25^\circ\text{C}$	-	0.89	0.95	
			$T_j=125^\circ\text{C}$	-	0.76	0.8	

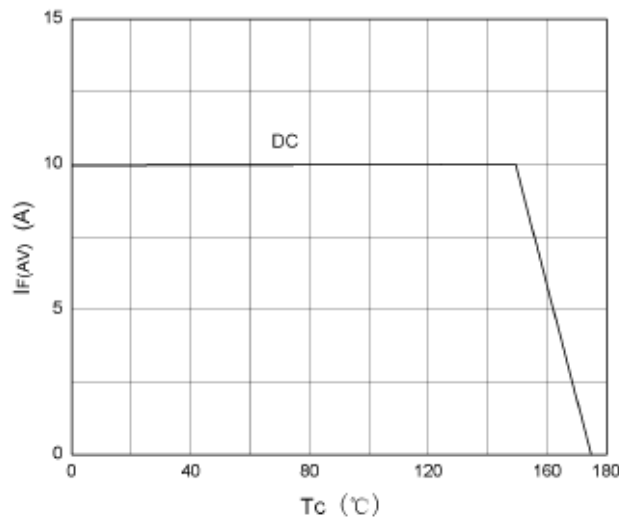
\*Notes:  $t_p = 380\mu\text{s}$ ,  $\delta < 2\%$



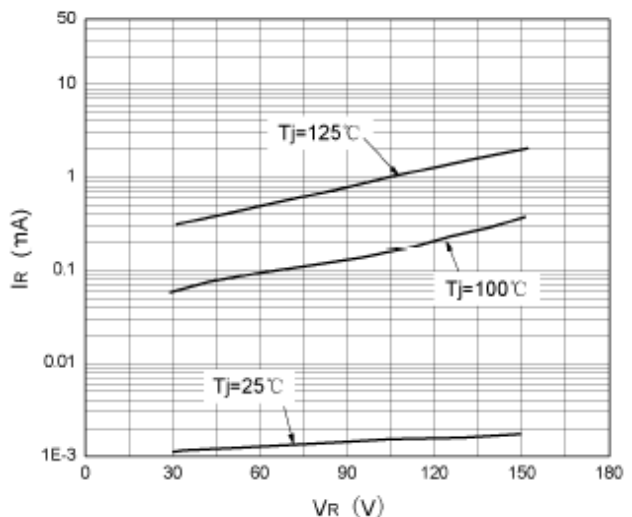
**Fig.1 Forward Voltage Drop Versus Forward current (maximum Values ,per diode)**



**Fig .2 Junction Capacitance Versus reverse Voltage applied (typical Values,per diode)**



**Fig. 3 Average Current versus ambient temperature (d=0.5)(per diode)**



**Fig. 4 Reverse leakage current versus reverse voltage applied ( typical values,per diode)**

**TO-220 Package Dimension**

