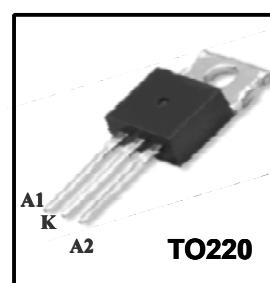
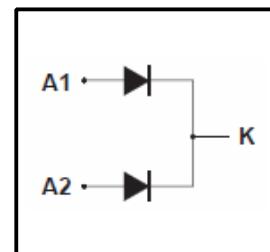


### Features

- 20A(2×10A),100V
- $V_F(\text{max})=0.68\text{V}(@TJ=125^\circ\text{C})$
- Low power loss, high efficiency
- Common cathode structure
- Guard ring for over voltage protection, High reliability
- Maximum Junction Temperature Range( $175^\circ\text{C}$ )



### 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
$V_{\text{DRM}}$	Repetitive peak reverse voltage	100	V
$V_{\text{DC}}$	Maximum DC blocking voltage	100	V
$I_{F(\text{RMS})}$	RMS forward current	30	A
$I_{F(\text{AV})}$	Average forward current	per diode	10
		per device	20
$I_{\text{FSM}}$	Surge non repetitive forward current	150	A
$I_{\text{RRM}}$	Repetitive peak reverse current	1	A
$dv/dt$	Critical rate of rise of reverse voltage	10000	V/ns
$T_{\text{J},}$	Junction Temperature	175	°C
$T_{\text{stg}}$	Storage Temperature	-40~150	°C

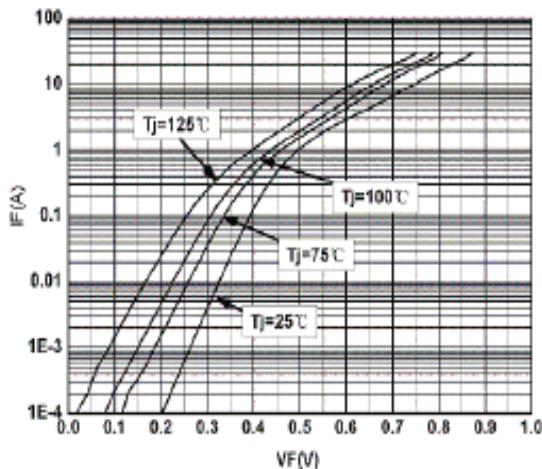
### Thermal Characteristics

Symbol	Parameter	Value			Units
		Min	Typ	Max	
$R_{\text{QJC}}$	Thermal Resistance, Junction-to-Case	-	-	1.9	°C/W
$R_{\text{QCS}}$	Thermal Resistance, Case-to-Sink	0.1	-	-	°C/W

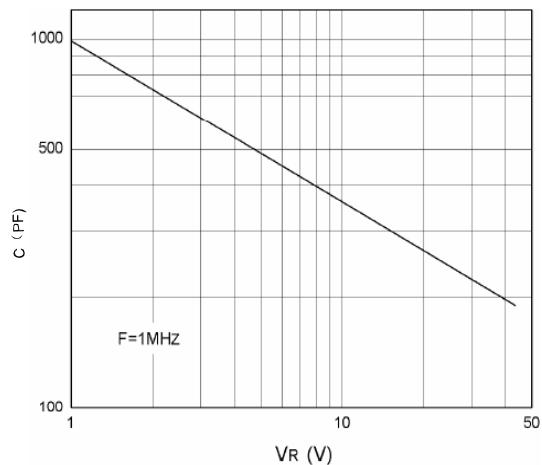
### Electrical Characteristics (per diode)

Characteristics	Symbol	Test Condition		Min	Typ.	Max	Unit
Reverse leakage current	$I_R$	VR = VRRM	$T_j = 25^\circ C$	-	-	10	$\mu A$
			$T_j = 125^\circ C$		-	5	mA
Forward voltage drop	$V_F$	IF= 10A	$T_j = 25^\circ C$	-	0.75	0.80	V
			$T_j = 125^\circ C$	-	0.62	0.68	
		IF= 20A	$T_j = 25^\circ C$	-	-	0.74	
			$T_j = 125^\circ C$	-	0.62	0.7	

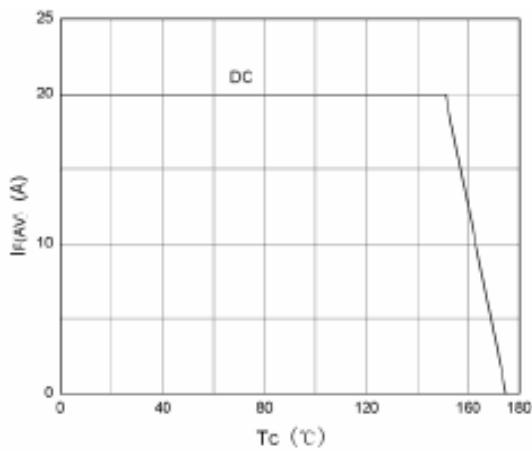
Note :tp = 380  $\mu s$ ,  $\delta < 2\%$



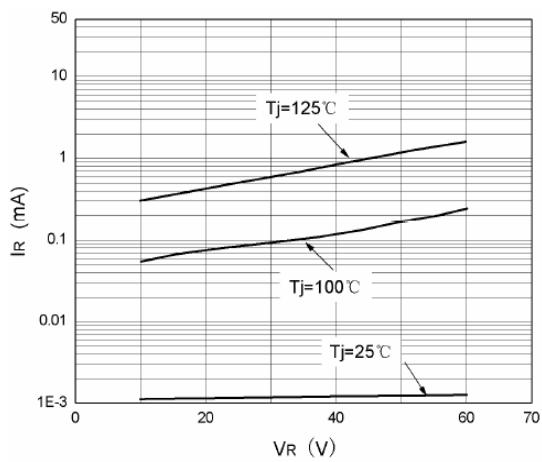
**Fig.1** Forward voltage drop versus forward current (maximum values, per diode).



**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**

