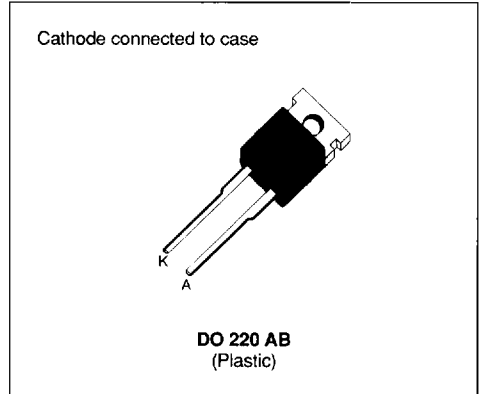




**RECTIFIER DIODES**

- STANDARD RECTIFIER
- HIGH SURGE CURRENT CAPABILITY
- LOW FORWARD VOLTAGE DROP



**ABSOLUTE RATINGS** (limiting values)

Symbol	Parameter	Value	Unit
$I_F$ (AV)	Average Forward Current* $T_c = 100^\circ\text{C}$	10	A
$I_{FSM}$	Surge non Repetitive Forward Current $t_p = 10\text{ms}$ Sinusoidal	140	A
$P_{tot}$	Power Dissipation* $T_c = 100^\circ\text{C}$	12.5	W
$T_{stg}$ $T_j$	Storage and Junction Temperature Range	- 40 to 125	$^\circ\text{C}$

Symbol	Parameter	BY 239-				Unit
		200 A	400 A	600 A	800 A	
$V_{RRM}$	Repetitive Peak Reverse Voltage	200	400	600	800	V

**THERMAL RESISTANCE**

Symbol	Parameter	Value	Unit
$R_{th(j-c)}$	Junction-case	2	$^\circ\text{C/W}$

**ELECTRICAL CHARACTERISTICS**

Symbol	Test Conditions	Min.	Typ.	Max.	Unit
$I_R$	$T_j = 125^\circ\text{C}$ $V_R = V_{RRM}$			500	$\mu\text{A}$
$V_F$	$T_j = 25^\circ\text{C}$ $I_F = 30\text{A}$			1.45	V

\* Single phase, half wave, resistive or inductive load

