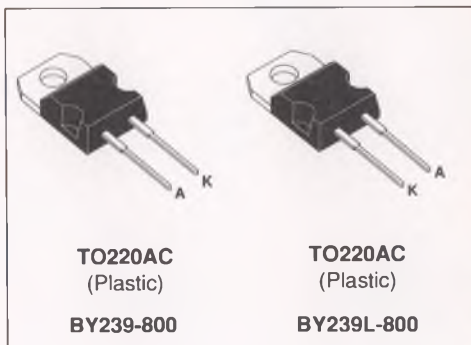


RECTIFIER DIODES

MAIN PRODUCTS CHARACTERISTICS

$I_{F(av)}$	10 A
V_{RRM}	800 V
$V_F(max)$	1.45 V

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



ABSOLUTE MAXIMUM 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	$^\circ\text{C}$

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

Symbol	Parameter	BY239(L)-				Unit
		200	400	600	800	
V_{RRM}	Repetitive peak reverse voltage	200	400	600	800	V

THERMAL RESISTANCE

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

ELECTRICAL CHARACTERISTICS

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

Pulse test : * $t_p = 380\ \mu\text{s}$, duty cycle < 2 %

** $t_p = 5\ \text{ms}$, duty cycle < 2 %