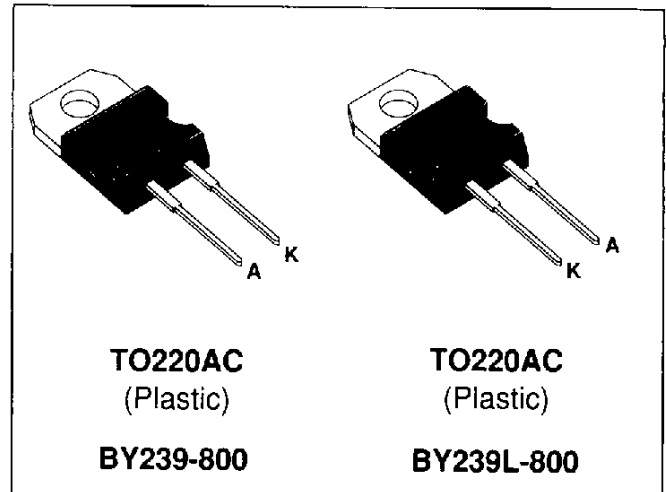


## RECTIFIER DIODES

### 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	$\mu\text{A}$

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

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