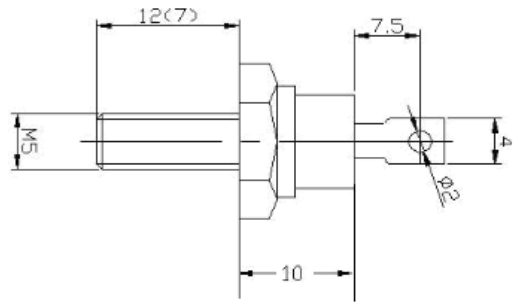
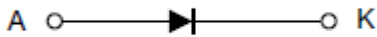


# ZP20A-18

**Diode**

**$I_{FAV} = 20\text{ A}$**   
 **$V_{RRM} = 1800\text{ V}$**



$V_{RRM}$  (V)

$V_{RSM}$  (V)

TYPE

1800

1900

ZP20A-18

## Maximum Ratings

Symbol	Item	Conditions	Ratings	Unit
$I_{FAV}$	Average Forward Current	Single phase ,half wave. $T_c=101\text{ }^\circ\text{C}$	20	A
$I_{FRMS}$	R.M.S Forward Current	Single phase ,half wave. $T_c=101\text{ }^\circ\text{C}$	31	A
$I_{FSM}$	Surge Forward Current	1/2 cycle, 50/60Hz, peak value, non-repetitive	410/450	A
$I_t^2$	$I_t^2$	Value for one cycle of surge current	840	$\text{A}^2\text{S}$
$T_j$	Junction Temperature		-40 to +150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature		-40 to +125	$^\circ\text{C}$
$V_{ISO}$	Isolation Breakdown Voltage (R.M.S.)	A.C. 1minute	2500	V

## Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
$I_{RRM}$	Repetitive Peak Reverse Current, max.	$T_j=150\text{ }^\circ\text{C}$ at $V_{RRM}$	4.0	mA
$V_{FM}$	Forward Voltage Drop, max.	$I_{FM}=65\text{ A}$ , $T_j=25\text{ }^\circ\text{C}$ Inst. measurement	1.6	V
$R_{th(j-c)}$	Thermal Impedance, max.	Junction to case	1.4	$^\circ\text{C/W}$

# ZP20A-18

