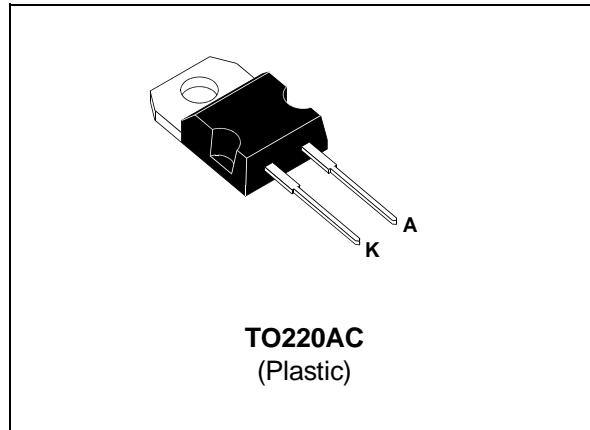




RECTIFIER DIODES

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°C	10	A
I _{FSM}	Surge non repetitive forward current	tp=10ms sinusoidal	140	A
P _{tot}	Power dissipation *	T _c =100°C	12.5	W
T _{stg} T _j	Storage and junction temperature range		- 40 to + 125	°C

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

Symbol	Parameter	Value	Unit
V _{RRM}	Repetitive peak reverse voltage	800	V

THERMAL RESISTANCE

Symbol	Parameter	Value	Unit
R _{th} (j-c)	Junction to case	2	°C/W

ELECTRICAL CHARACTERISTICS

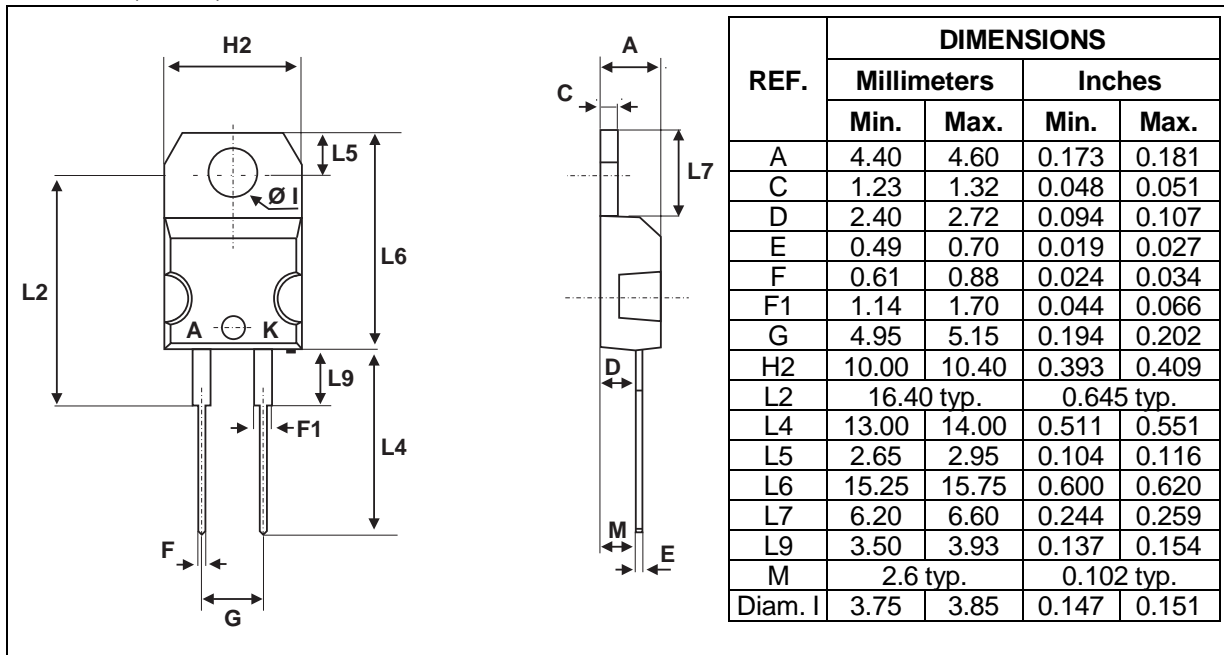
Symbol	Test Conditions		Min.	Typ.	Max.	Unit
V _F *	T _j = 25°C	I _F = 30 A			1.45	V
I _R **	T _j = 125°C	V _R = V _{RRM}			500	µA

Pulse test : * tp = 380 µs, duty cycle < 2 %

** tp = 5 ms, duty cycle < 2 %

BY239L-800

PACKAGE MECHANICAL DATA TO220AC (Plastic)



Cooling method : C
 Marking : Type number
 Weight : 1.86 g

Recommended torque value : 0.8m.N
 Maximum torque value : 1.0m.N

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