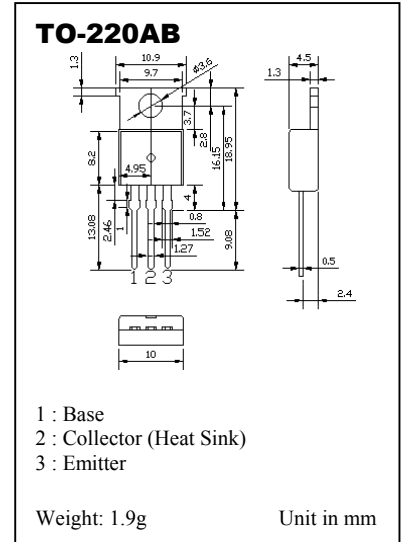


NPN MULTIEPITAXIAL HIGH VOLTAGE FAST SWITCHING TRANSISTOR

... designed for electronic ballasts for fluorescent lighting.
 ... designed for switching mode power supplies.

MAXIMUM RATINGS (Ta = 25 °C)

Characteristic	Symbol	Value	Unit
Collector Emitter Voltage (VBE=0)	V _{CES}	1500	V
Collector Emitter Voltage (IB=0)	V _{CEO}	700	V
Collector Current	I _C	2.5	A
Collector Peak Current (tp<5ms)	I _{CM}	4	A
Base Current	I _B	1	A
Base Peak Current (tp<5ms)	I _{BM}	2	A
Total Dissipation Tc≤25°C	P _{tot}	75	W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	-65 ~ 150	°C

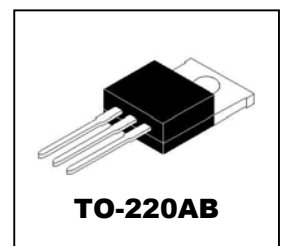


ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector Cutoff Current (VBE=0)	I _{CES}	V _{CE} = 1500V	-	-	0.15	mA
		V _{CE} = 1500V, T _c =125°C	-	-	1	mA
Emitter Cutoff Current (Ic=0)	I _{EBO}	V _{EB} = 5V	-	-	1	mA
Second Breakdown Current	I _{s/b}	V _{CE} = 120V, t=200μs	2	-	-	A
Collector Emitter Saturation Voltage	V _{CE(sat)*}	I _C = 2A, I _B = 0.9A	-	-	5	V
Base Emitter Saturation Voltage	V _{BE(sat)*}	I _C = 2A, I _B = 0.9A	-	-	1.3	V
Collector Emitter Sustaining Voltage (Ib=0)	V _{CEO(sus)*}	I _C = 100mA, L=25mH	700	-	-	V
Inductive Load Storage Time	t _s	V _{clamp} =250V, I _C =2A,	-	2	-	μs
		I _{B1} =0.7A, V _{BE(off)} =-5V,	-	-	-	-
Fall Time	t _f	R _{bb} =0, L=200μH	-	350	-	ns

*Pulse Test: Pulse duration=300μs, duty cycle 1.5%.

**NPN
 MULTIEPITAXIAL
 HIGH VOLTAGE
 FAST SWITCHING
 TRANSISTOR**



PMC reserves the right to make changes without further notice to any products herein. **PMC** makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does **PMC** assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation consequential damages. The examples of applied circuits are provided as reference to the reader therefore we shall not undertake any responsibility for the exercise of rights by third parties.