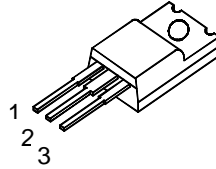


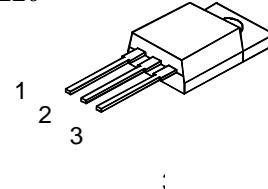
**1. FEATURES:**

- High Voltage Capability
- High Speed Switching
- Wide SOA

**TO-220F**



**TO-220**



**2. APPLICATION:**

- Fluorescent Lamp
- Electronic Ballast
- Switch mode power supply
- Electronic Transformer

1:B 2:C 3:E

**3. ABSOLUTE MAXIMUM RATINGS(Ta=25°C, unless otherwise specified)**

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V <sub>CBO</sub>	700	V
Collector-Emitter Voltage	V <sub>CEO</sub>	400	V
Emitter-Base Voltage	V <sub>EBO</sub>	9	V
Collector Current	I <sub>C</sub>	8	A
Collector Power Dissipation	P <sub>c</sub>	100	W
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature	T <sub>stg</sub>	-55~150	°C

**4. ELECTRICAL CHARACTERISTICS(Ta=25°C Unless Otherwise Specified)**

Parameter	Symbol	Test Condition	Min	Max	Unit
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	I <sub>c</sub> =1mA IE=0	700		V
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	I <sub>c</sub> =10mA IB=0	400		V
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	IE=1mA Ic=0	9		V
Collector-Base Cutoff Current	I <sub>CBO</sub>	V <sub>cB</sub> =680V IE=0		5	uA
Collector-Emitter Cutoff Current	I <sub>CEO</sub>	V <sub>CE</sub> =390V IB=0		5	uA
Emitter-Base Cutoff Current	I <sub>EBO</sub>	VEB=9V Ic=0		5	uA
Collector-Emitter Saturation Voltage	V <sub>CEsat</sub>	I <sub>c</sub> =2A IB=0.4A		1.0	V
		I <sub>c</sub> =8A IB=2A		2.5	V
Base-Emitter Saturation Voltage	V <sub>BEsat</sub>	I <sub>c</sub> =5A IB=1A		1.8	V
DC Current Gain	h <sub>FE</sub>	V <sub>CE</sub> =5V Ic=2A	15	40	
Falling Time	t <sub>f</sub>	I <sub>C</sub> =0.5A		0.5	us
Storage Time	t <sub>s</sub>	I <sub>B1</sub> = -I <sub>B2</sub> =0.1A		8	us
Transition Frequency	f <sub>T</sub>	V <sub>CE</sub> =10V Ic=500mA f=1MHz	5		MHz



