TRIPLE DIFFUSED PLANER TYPE HIGH VOLTAGE, HIGH SPEED SWITCHING

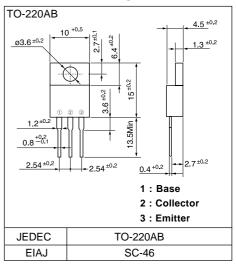
■ Features

- High voltage, High speed switching
- High reliability

■ Applications

- Switching regulators
- Ultrasonic generators
- High frequency inverters
- General purpose power amplifiers

■ Outline Drawings



■ Maximum ratings and characteristics

● Absolute maximum ratings (Tc=25°C unless otherwise specified)

Item	Symbol	Ratings	Unit
Collector-Base voltage	Vсво	850	V
Collector-Emitter voltage	VCEO	500	V
Emitter-Base voltage	Vево	10	V
Collector current	Ic	6	Α
Base current	lв	2	Α
Collector power disspation	Pc	40	W
Operating junction temperature	Tj	+150	℃
Storage temperature	Tstg	-55 to +150	℃

● Electrical characteristics (Tc =25°C unless otherwise specified)

Item	Symbol	Test Conditions	Min.	Тур.	Max.	Units
Collector-Base voltage	Vсво	ICBO = 1mA	850			V
Collector-Emitter voltage	VCEO	ICEO = 10mA	500			V
Emitter-Base voltage	VEBO	IEBO = 1mA	10	-		V
Collector-Base leakage current	Ісво	VCBO = 850V		-	1.0	mA
Emitter-Base leakage current	IEBO	VEBO = 10V		-	1.0	mA
D.C. current gain	hFE	IC = 0.5A, VCE = 5V	15			
Collector-Emitter saturation voltage	VCE(Sat)	IC = 2A, IB = 0.4A			0.5	V
Base-Emitter saturation voltage	VBE(Sat)	1			1.2	V
*1	ton	IC = 1A, IB1 = 0.1A			1.0	μs
Switching time	t stg	I _{B2} = -0.2A, R _L = 300 ohm			3.0	μs
-	tf	Pw = 20µs Dutv=<2%			1.0	μs

Thermal characteristics

Item	Symbol	Test Conditions	Min.	Тур.	Max.	Units
Thermal resistance	Rth(j-c)	Junction to case			3.0	°C/W

Characteristics

