TRIPLE DIFFUSED PLANER TYPE HIGH SPEED SWITCHING

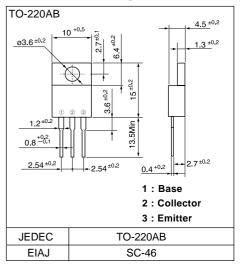
■ Features

- 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	250	V
Collector-Emitter voltage	VCEO	200	V
Collector-Emitter voltage	VCEO(SUS)	200	V
Emitter-Base voltage	VEBO	7	V
Collector current	Ic	6	Α
Base current	lв	1.5	Α
Collector power disspation	Pc	40	W
Operating junction temperature	Tj	+150	∞
Storage temperature	Tstg	-55 to +150	℃

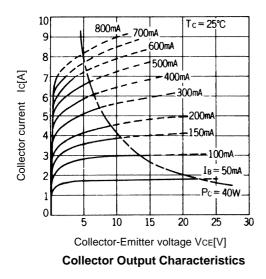
● Electrical characteristics (Tc =25°C unless otherwise specified)

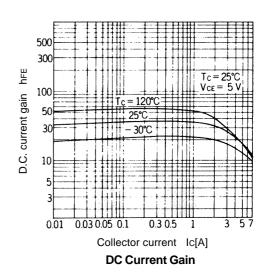
Item	Symbol	Test Conditions	Min.	Тур.	Max.	Units
Collector-Base voltage	Vсво	ICBO = 0.1mA	250			V
Collector-Emitter voltage	VCEO	ICEO = 10mA	200			V
Collector-Emitter voltage	VCEO(SUS)	Ic = 1A	200	-		V
Emitter-Base voltage	VEBO	IEBO = 0.1mA	7	-		V
Collector-Base leakage current	Ісво	VcBo = 250V		-	0.1	mA
Emitter-Base leakage current	I EBO	VEBO = 7V		-	0.1	mA
D.C. current gain	hfe	IC = 1A, VCE = 5V	20			
Collector-Emitter saturation voltage	VCE(Sat)	IC = 2A, IB = 0.8A			0.5	V
Base-Emitter saturation voltage	VBE(Sat)				1.2	V
*1	t on	IC = 4A, IB1 = 0.4A			1.0	μs
Switching time	t stg	IB2 = -0.4A, RL = 20 ohn			2.0	μs
	tf	Pw = 20µs Duty=<2%			1.0	μs

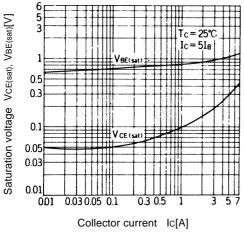
Thermal characteristics

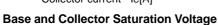
Thermal resistance Rth(j-c) Junction to case 3.0 °CM	Item	Symbol	Test Conditions	Min.	Тур.	Max.	Units
Thomas redictance	Thermal resistance	Rth(j-c)	Junction to case			3.0	°C/W

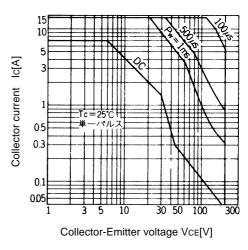
Characteristics



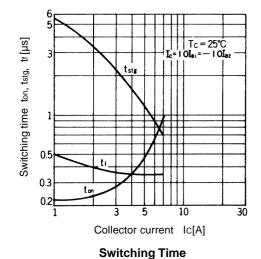








Safe Operating Area



*1 Switching Time Test Circuit

