

TRIPLE DIFFUSED PLANER TYPE HIGH VOLTAGE, HIGH SPEED SWITCHING

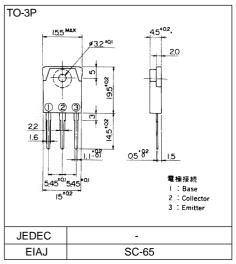
■ Features

- 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	900	V
Collector-Emitter voltage	VCEO	800	V
Collector-Emitter voltage	VCEO(SUS)	-	V
Emitter-Base voltage	VEBO	10	V
Collector current	Ic	3	Α
Base current	I B	1	Α
Collector power disspation	Pc	80	W
Operating junction temperature	Tj	+150	℃
Storage temperature	Tstg	-55 to +150	℃

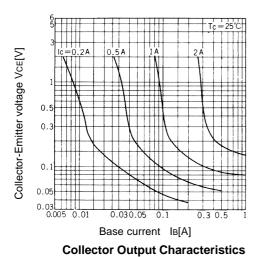
Electrical characteristics (Tc =25°C unless otherwise specified)

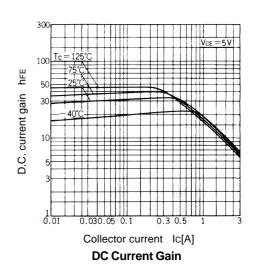
Item	Symbol	Test Conditions	Min.	Тур.	Max.	Units
Collector-Base voltage	Vсво	ICBO = 1mA	900			V
Collector-Emitter voltage	VCEO	ICEO = 10mA	800			V
Collector-Emitter voltage	VCEO(SUS)	Ic = A	-	-		V
Emitter-Base voltage	VEBO	IEBO = 1mA	10	-		V
Collector-Base leakage current	Ісво	VcBo = 900V		-	1.0	mA
Emitter-Base leakage current	IEBO	VEBO = 10V		-	1.0	mA
D.C. current gain	hFE	IC = 1A, VCE = 5V	10			
Collector-Emitter saturation voltage	VCE(Sat)	IC = 1A, IB = 0.2A			1.0	V
Base-Emitter saturation voltage	VBE(Sat)				1.5	V
*1	ton	IC = 1A, IB1 = 0.4A			1.0	μs
Switching time	t stg	IB2 = -0.8A, $RL = 150$ ohm			4.0	μs
	tf	Pw = 20 µs Duty=<2%			0.8	μs

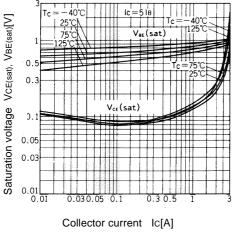
Thermal characteristics

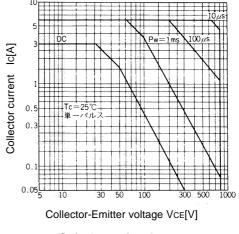
Thermal resistance Rth(j-c) Junction to case 1.5 °C/W	Item	Symbol	Test Conditions	Min.	Тур.	Max.	Units
	Thermal resistance	Rth(j-c)	Junction to case			1.5	°C/W

Characteristics



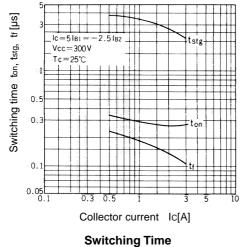






Base and Collector Saturation Voltage

Safe Operating Area



*1 Switching Time Test Circuit

