TOSHIBA 2SC2552

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE (PCT PROCESS)

2 S C 2 5 5 2

SWITCHING REGULATOR AND HIGH VOLTAGE SWITCHING APPLICATIONS.

HIGH SPEED DC-DC CONVERTER APPLICATIONS.

Excellent Switching Times

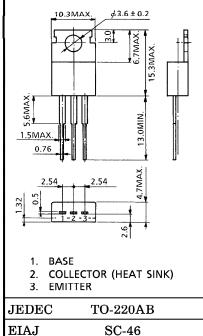
: $t_r = 1.0 \mu s$ (Max.) $t_f = 1.0 \mu s$ (Max.) at $I_C = 0.8 A$

High Collector Breakdown Voltage: VCEO=400V

MAXIMUM RATINGS (Ta = 25°C)

CHARACTI	SYMBOL	RATING	UNIT		
Collector-Base Voltage		V _{CBO}	500	V	
Collector-Emitter Voltage		VCEO	400	V	
Emitter-Base Voltage		V _{EBO}	7	V	
Collector Current		$I_{\mathbf{C}}$	2	A	
Base Current		I _B	0.5	Α	
Collector Power Dissipation	Ta=25°C	Pa	1.5	W	
	Tc = 25°C	- PC	20		
Junction Temperature		T_{j}	150	$^{\circ}\mathrm{C}$	
Storage Temperature Range		$ m T_{stg}$	-55~150	$^{\circ}\mathrm{C}$	

INDUSTRIAL APPLICATIONS Unit in mm



TOSHIBA 2-10A1A

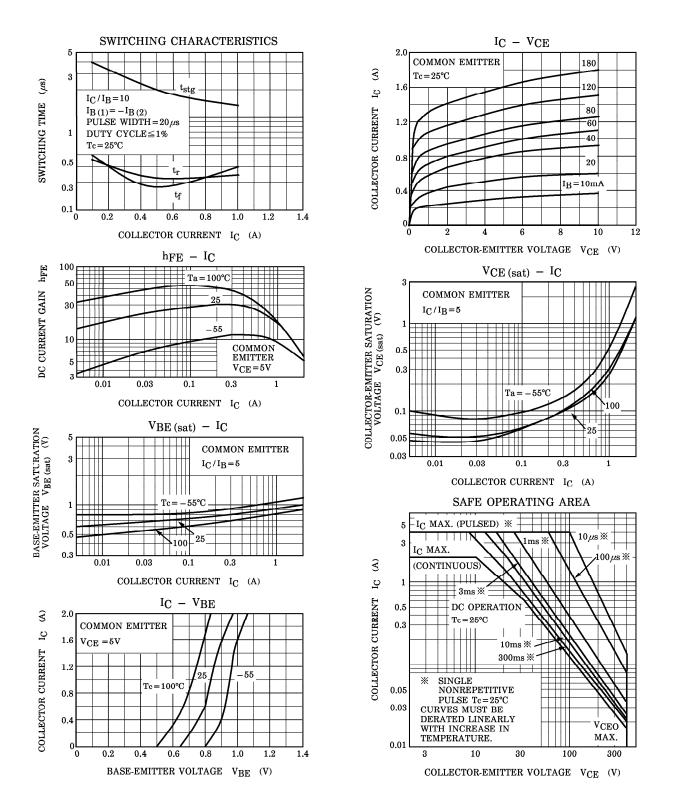
Weight: 1.9g Mounting kit No. AC75

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

1M10				unting kit No. AC75			
CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I_{CBO}	$V_{CB} = 400V, I_{E} = 0$	_	_	100	$\mu \mathbf{A}$
Emitter Cut-off Current		I_{EBO}	$V_{EB}=7V, I_{C}=0$	_	_	1	mA
Collector-Base Breakdown Voltage		V (BR) CBO	$I_{C}=1$ mA, $I_{E}=0$	500	_	_	V
Collector-Emitter Breakdown Voltage		V (BR) CEO	$I_{C}=10mA, I_{B}=0$	400	_	_	V
DC Current Gain		h _{FE} (1)	$V_{CE}=5V$, $I_{C}=0.1A$	20	_	_	
		h _{FE} (2)	$V_{CE}=5V$, $I_{C}=1A$	8	_	_	
Saturation Voltage	Collector-Emitter	V _{CE} (sat)	$I_{C}=1A, I_{B}=0.2A$	_	_	1.0	V
	Base-Emitter	V _{BE} (sat)	$I_{C}=1A, I_{B}=0.2A$	_	_	1.5	
Switching Time	Turn-on Time	t _r	IB1 IN- IB1 OUTPUT OUTP	1	-	1.0	
	Storage Time	t_{stg}		_	_	2.5	μ s
	Fall Time	t_f	$I_{B1} = -I_{B2} = 0.08A$ DUTY CYCLE $\leq 1\%$ $V_{CC} = 200V$	_	_	1.0	

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