TOSHIBA 2SC5466

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE

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DYNAMIC FOCUS APPLICATIONS

HIGH VOLTAGE SWITCHING APPLICATIONS
HIGH VOLTAGE AMPLIFIER APPLICATIONS

• High Voltage : V_{CEO} = 800 V

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT	
Collector-Base Voltage		v_{CBO}	800	V	
Collector-Emitter Voltage		v_{CEO}	800	V	
Emitter-Base Voltage		v_{EBO}	5	V	
Collector Current		$I_{\mathbf{C}}$	50	mA	
Base Current		$I_{\mathbf{B}}$	25	mA	
Collector Power	$Ta = 25^{\circ}C$	Da	2.0	w	
Dissipation	$Tc = 25^{\circ}C$	$_{\mathrm{PC}}$	10] **	
Junction Temperature		T_{j}	150	°C	
Storage Temperature Range		$\mathrm{T_{stg}}$	-55~150	°C	

Weight: 1.7 g

ELECTRICAL CHARACTERISTICS ($Ta = 25^{\circ}C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = 640 \text{ V}, I_{E} = 0$	_	_	1.0	μ A
Emitter Cut-off Current	I _{EBO}	$V_{EB} = 5 \text{ V}, I_{C} = 0$	_	_	10	μ A
DC Current Gain	$h_{ ext{FE}}$	$V_{CE} = 5 \text{ V}, I_{C} = 7 \text{ mA}$	15	_	_	
Collector-Emitter Saturation Voltage	V _{CE} (sat)	$I_{\mathrm{C}} = 20 \mathrm{mA}, I_{\mathrm{B}} = 4 \mathrm{mA}$	_	_	1.0	V
Base-Emitter Saturation Voltage	V _{BE} (sat)	$I_{\mathrm{C}} = 20 \mathrm{mA}, \; I_{\mathrm{B}} = 4 \mathrm{mA}$	_	_	1.5	V
Transition Frequency	${ m f_T}$	$V_{CE} = 10 \text{ V}, I_{C} = 3 \text{ mA}$	<u> </u>	5.5	<u> </u>	MHz
Collector Output Capacitance	$C_{ m ob}$	$V_{CB} = 100 \text{ V}, \text{ f} = 1 \text{ MHz}$	_	2.2	_	рF

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