

TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE

2SC5360

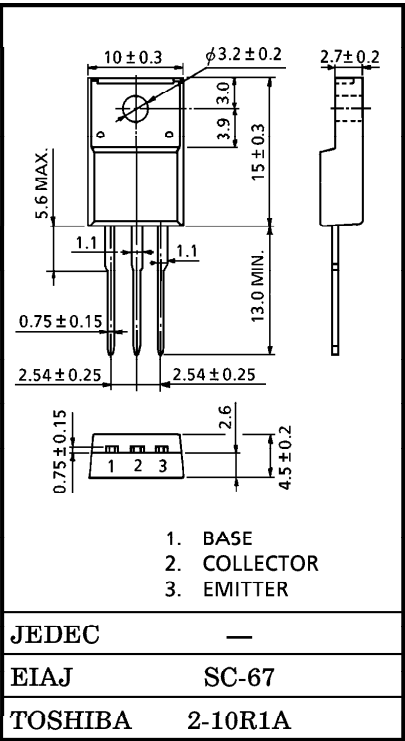
COLOR TV CHROMA OUTPUT APPLICATIONS

Unit in mm

- High Voltage : $V_{CEO}=300V$
- Small Collector Output Capacitance : $C_{ob}=5.0pF$ (Typ.)
- High Transition Frequency : $f_T=100MHz$ (Typ.)

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	300	V
Collector-Emitter Voltage		V_{CEO}	300	V
Emitter-Base Voltage		V_{EBO}	5	V
Collector Current		I_C	150	mA
Base Current		I_B	50	mA
Collector Power Dissipation	Ta = 25°C	P_C	2.0	W
	Tc = 25°C		12.5	
Junction Temperature		T_j	150	°C
Storage Temperature Range		T_{stg}	-55~150	°C



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

Weight : 1.7g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=240V, I_E=0$	—	—	1.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V, I_C=0$	—	—	1.0	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=5mA, I_B=0$	300	—	—	V
DC Current Gain	h_{FE}	$V_{CE}=10V, I_C=50mA$	40	—	170	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=100mA, I_B=20mA$	—	—	1.0	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=100mA, I_B=20mA$	—	—	1.2	V
Transition Frequency	f_T	$V_{CE}=10V, I_C=30mA$	40	100	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=50V, I_E=0, f=1MHz$	—	5.0	6.5	pF

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