

TOSHIBA TRANSISTOR SILICON NPN EPITAXIAL TYPE (PCT PROCESS)

2SC3422

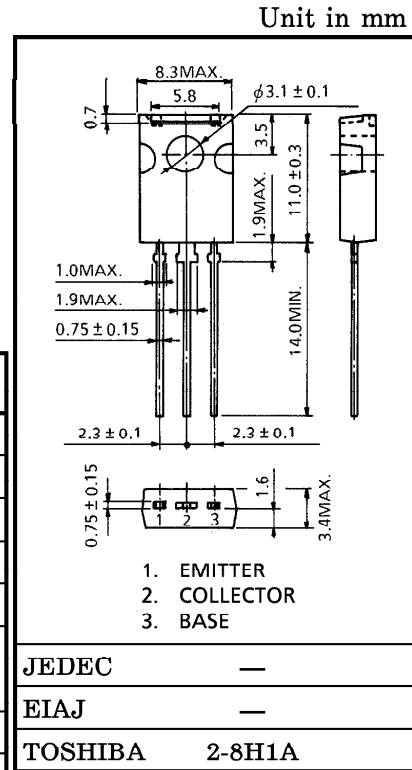
AUDIO FREQUENCY POWER AMPLIFIER.

LOW SPEED SWITCHING.

- Suitable for Output Stage of 5 Watts Car Radio and Car Stereo.
- Good Linearity of h_{FE} .
- Complementary to 2SA1359.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	40	V
Collector-Emitter Voltage		V_{CEO}	40	V
Emitter-Base Voltage		V_{EBO}	5	V
Collector Current		I_C	3	A
Base Current		I_B	1	A
Collector Power Dissipation	Ta = 25°C	P_C	1.5	W
	Tc = 25°C		10	
Junction Temperature		T_j	150	°C
Storage Temperature Range		T_{stg}	-55~150	°C



Weight : 0.82g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=40V, I_E=0$	—	—	100	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V, I_C=0$	—	—	100	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	40	—	—	V
DC Current Gain	$h_{FE}(1)$ (Note)	$V_{CE}=2V, I_C=0.5A$	80	—	240	
	$h_{FE}(2)$	$V_{CE}=2V, I_C=2.5A$	25	—	—	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=2A, I_B=0.2A$	—	—	0.8	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=2V, I_C=0.5A$	—	—	1.0	V
Transition Frequency	f_T	$V_{CE}=2V, I_C=0.5A$	—	100	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$	—	35	—	pF

Note : $h_{FE}(1)$ Classification O : 80~160, Y : 120~240

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