TOSHIBA 2SC3279

TOSHIBA TRANSISTOR SILICON NPN EPITAXIAL TYPE (PCT PROCESS)

2 S C 3 2 7 9

STOROBO FLASH APPLICATIONS MEDIUM POWER AMPLIFIER APPLICATIONS

High DC Current Gain and Excellent hFE Linearity

: $h_{FE(1)} = 140 \sim 600 \text{ (V}_{CE} = 1\text{V, I}_{C} = 0.5\text{A})$

: $h_{FE}(2) = 70$ (Min.), 200 (Typ.) ($V_{CE} = 1V$, $I_{C} = 2A$)

Low Saturation Voltage

: $V_{CE (sat)} = 0.5V (Max.) (I_{C} = 2A, I_{B} = 50mA)$

MAXIMUM RATINGS (Ta = 25°C)

the buttle to thirtee (rd = 25 c)								
CHARACT	SYMBOL	RATING	UNIT					
Collector-Base Voltage		V_{CBO}	30	V				
Collector-Emitter Voltage		VCES	30	V				
		v_{CEO}	10					
Emitter-Base Voltage		$V_{ m EBO}$	6	V				
Collector Current	DC	$I_{\mathbf{C}}$	2	mA				
	Pulsed (Note 1)	I_{CP}	5					
Base Current		I_{B}	2	mA				
Collector Power Dissipation		PC	750	mW				
Junction Temperature		T_j	150	°C				
Storage Temperature Range		$T_{ m stg}$	-55~150	°C				

5.1 MAX **EMITTER** COLLECTOR BASE **JEDEC** TO-92 **EIAJ** SC-43 TOSHIBA 2-5F1B

Unit in mm

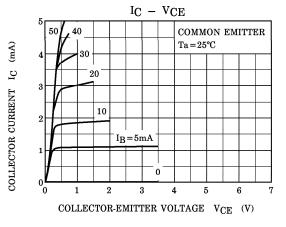
Weight: 0.21g

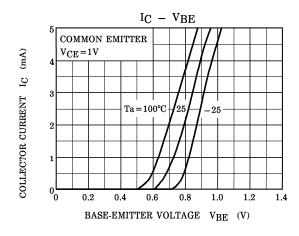
Note 1: Pulse Width=10ms (Max.), Duty Cycle=30% (Max.) ELECTRICAL CHARACTERISTICS (Ta = 25°C)

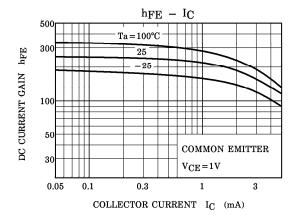
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CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = 30V, I_{E} = 0$	_	_	0.1	μ A
Emitter Cut-off Current	$I_{ m EBO}$	$V_{EB}=6V, I_{C}=0$	_	_	0.1	μ A
Collector-Emitter Breakdown Voltage	V (BR) CEO	$I_{C} = 10 \text{mA}, I_{B} = 0$	10	_	_	V
Emitter-Base Breakdown Voltage	V (BR) EBO	$I_{\rm E}=1$ mA, $I_{\rm C}=0$	6	_	_	V
DC Current Gain	h _{FE (1)} (Note 2)	$V_{CE} = 1V, I_{C} = 0.5A$	140	_	600	
	h _{FE} (2)	$V_{CE}=1V, I_{C}=2A$	70	200	_	
Collector-Emitter Sturation Voltage	V _{CE} (sat)	$I_{\rm C}$ =2A, $I_{\rm B}$ =50mA	_	0.2	0.5	V
Base-Emitter Voltage	$V_{ m BE}$	$V_{CE}=1V, I_{C}=2A$	_	0.86	1.5	V
Transition Frequency	$\mathbf{f_{T}}$	$V_{CE}=1V$, $I_{C}=0.5A$	_	150	_	MHz
Collector Output Capacitance	C _{ob}	$V_{\rm CB} = 10 V, I_{\rm E} = 0, f = 1 MHz$	_	27	_	рF

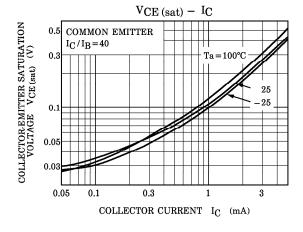
L: 140~240, M: 200~330, N: 300~450, P: 420~600 Note 2: hFE(1) Classification

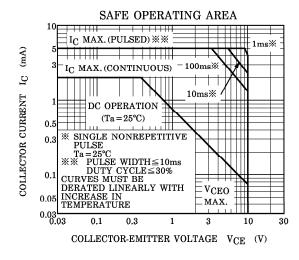
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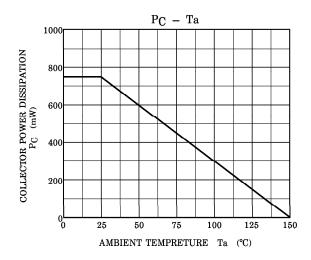












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