Digital transistors (built-in resistor)

DTC323TU / DTC323TK / DTC323TS

Features

In addition to the features of regular digital transistors,

- 1) Low VcE(sat) makes these transistors ideal for muting circuits. (Typ. 0.04V at Ic/Iв=50/2.5mA)
- 2) They can be used at high current. (IcMax. =600mA)

●Absolute maximum ratings (Ta=25°C)

Pa	Symbol	Limits	Unit		
Collector-base vo	Vсво	30	٧		
Collector-emitter	VCEO	15	V		
Emitter-base volt	VEBO	5	V		
Collector current		lc	600	mA	
Collector power DTC323TU / DTC323TK		Pc	200	>4/	
dissipation	DTC323TS	PC	300	mW	
Junction temperature		Tj	150	°C	
Storage temperat	Tstg	-55~+150	C		

●Package, marking, and packaging specifications

Part No.	DTC323TU	DTC323TK	DTC323TS
Package	UMT3	SMT3	SPT
Marking	H02	H02	_
Packaging code	T106	T146	TP
Basic ordering unit (pieces)	3000	3000	5000

●Circuit schematic

B ○─₩ ○ C ○ C ○ E	
E : Emitter C : Collector B : Base	

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	30	_	_	V	Ic=50 μ A
Collector-emitter breakdown voltage	BVceo	15	_	_	V	Ic=1mA
Emitter-base breakdown voltage	BVEBO	5	_	_	V	Iε=50 μ A
Collector cutoff current	Ісво	_	_	0.5	μA	Vcs=20V
Emitter cutoff current	IEBO	_	_	0.5	μΑ	V _{EB} =4V
Collector-emitter saturation voltage	VCE(sat)	_	40	80	mV	Ic/Is=50mA/2.5mA
DC current transfer ratio	hre	100	250	600	_	Ic=50mA , VcE=5V
Input resistance	R ₁	1.64	2.2	2.86	kΩ	_
Transition frequency	fτ	_	200	_	MHz	VcE=10V , IE=-50mA , f=100MHz *
Output on resistance	Ron	_	0.65	_	Ω	$V_1=7V$, $R_L=1k\Omega$, $f=1kHz$

* Transition frequency of the device.

(96-348-C323T)

Digital transistors (built-in resistor)

DTC343TK / DTC343TS

Features

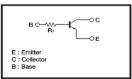
In addition to the features of regular digital transistors,

- Low VcE(sat) makes these transistors ideal for muting circuits.
 (Typ. 0.04V at lc/ls=50/2.5mA)
- 2) They can be used at high current. (IcMex. =600mA)

●Absolute maximum ratings (Ta=25℃)

Pa	Symbol	Limits	Unit		
Collector-base vol	Vсво	30	V		
Collector-emitter voltage		VCEO	15	V	
Emitter-base voltage		VEBO	5		
Collector current		lc	600	mA	
Collector power	Collector power DTC343TK		200	mW	
dissipation	DTC343TS	Pc	300	IIIVV	
Junction temperature		Tj	150	°C	
Storage temperati	Tstg	-55~+150	°		

Circuit schematic



●Electrical characteristics (Ta=25°C)

The state of the s							
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions	
Collector-base breakdown voltage	ВУсво	30	_	_	V	Ic=50 μ A	
Collector-emitter breakdown voltage	BVcEo	15	_	_	V	Ic=1mA	
Emitter-base breakdown voltage	BVEBO	5	_	_	V	Iε=50 μ A	
Collector cutoff current	Ісво		_	0.5	μΑ	Vce=20V	
Emitter cutoff current	lebo	_	_	0.5	μΑ	V _{EB} =4V	
Collector-emitter saturation voltage	VCE(sat)	I -	40	80	m∨	Ic=50mA , Is=2.5mA	
DC current transfer ratio	hre	100	250	600	_	Ic=50mA , VcE=5V	
Input resistance	R ₁	3.29	4.7	6.11	kΩ	_	
Transition frequency	fτ	I -	200	_	MHz	Vce=10V, le=-50mA, f=100MHz *	
Output on resistance	Ron		0.95	_	Ω	V ₁ =7V , R=1kΩ , f=1kHz	

^{*} Transition frequency of the device.

TADSOIGLE MAXIMUM Tatings (Ta=250)

●Package, marking, and packaging specifications

Part No.	DTC343TK	DTC343TS
Package	SMT3	SPT
Marking	H03	_
Packaging code	T146	TP
Basic ordering unit (pieces)	3000	5000

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