Medium Power Transistor (50V, 0.5A)

2SD1949 / 2SD1484K / 2SC1741AS

Features

- 1) High current. (Ic=5A)
- 2) Low saturation voltage, typically VcE(sat) =0.1V at Ic / IB= 150mA / 15mA

●Packaging specifications and hre

Туре	2SD1949	2SD1484K	2SC1741AS
Package	UMT3	SMT3	SPT
hre	QR	QR	QR
Marking	Y*	Υ×	_
Code	T106	T146	TP
Basic ordering unit (pieces)	3000	3000	5000

[★] Denotes hre

●Absolute maximum ratings (Ta=25°C)

Pa	arameter	Symbol	Limits	Unit	
Collector-base voltage		Vсво	50	٧	
Collector-emitter voltage		Vceo	50	٧	
Emitter-base voltage		VEBO	5	٧	
Collector current		Ic	0.5	Α	
Collector power 2SD1949,2SD1484K		Pc	0.2	144	
dissipation	2SC1741AS	1 100	0.3	W	
Junction temperature		Tj	150	°C	
Storage temperature		Tstg	-55~+150	°C	

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-base breakdown voltage	ВУсво	50	_	_	V	Ic=100 μ A
Collector-emitter breakdown voltage	BVceo	50	_	_	V	Ic=1mA
Emitter-base breakdown voltage	BVEBO	5	_	_	V	IE=100 μ A
Collector cutoff current	Ісво		_	0.5	μА	Vob=30V
Emitter cutoff current	lebo	_	_	0.5	μΑ	V _{EB} =4V
DC current transfer ratio	hee	120	_	560	_	Vce/lc=3V/0.1A
Collector-emitter saturation voltage	VCE(sat)	_	_	0.4	V	Ic/Is=150mA/15mA
Transition frequency	f⊤	_	250	_	MHz	VcE=5V , IE=-20mA , f=100MHz
Output capacitance	Cob	_	6.5	_	pF	VcB=10V, IE=0A, f=1MHz

(96-678-D15)

Power Transistor (80V, 0.3A)

2SC3359S

Features

- 1) High breakdown voltage, BVcEo=80V.
- Low saturation voltage, typically VcE(sat) =0.2V at lc / IB= 0.3A / 0.03A.

●Packaging specifications and hre

Type	2SC3359S
Package	SPT
hre	QR
Code	TP
Basic ordering unit (pieces)	5000

●Absolute maximum ratings (Ta=25℃)

Parameter	Symbol	Limits	Unit
Collector-base voltage	Vсво	80	V
Collector-emitter voltage	Vceo	80	V
Emitter-base voltage	VEBO	5	V
Collector current	lc	0.3	Α
Collector power dissipation	Pc	0.3	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55~+150	°C

●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Collector-emitter breakdown voltage	BVceo	80	_	_	V	Ic=1mA
Collector-base breakdown voltage	ВУсво	80	_	_	V	Ic=50 μ A
Emitter-base breakdown voltage	BVEBO	5	_	_	V	I _E =50 μ A
Collector cutoff current	Ісво	_	_	0.5	μA	V _{CB} =80V
Emitter cutoff current	IEBO	_	_	0.5	μА	V _{EB} =4V
Collector-emitter saturation voltage	VCE(sat)	_	0.2	0.5	V	Ic/Is=0.3/0.03A
DC current transfer ratio	hre	120	_	390	_	VcE=3V , Ic=0.1A
Transition frequency	f⊤	50	150	_	MHz	VcE=5V , IE=0.01A , f=100MHz
Output capacitance	Cob	_	5	8	pF	Vos=10V , Is=0A , f=1MHz

(SPEC-D16)

