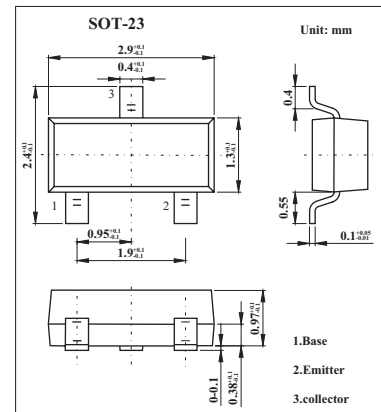


## Medium Power Transistor

### 2SD1484K

#### ■ Features

- High current.( $I_c=5A$ ).
- Low saturation voltage, typically  $V_{CE(sat)}=0.1V$  at  $I_c / I_B=150mA / 15mA$ .



#### ■ Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Collector-base voltage	$V_{CB0}$	50	V
Collector-emitter voltage	$V_{CE0}$	50	V
Emitter-base voltage	$V_{EB0}$	5	V
Collector current *	$I_c$	0.5	A
Collector power dissipation	$P_c$	0.2	W
Junction temperature	$T_j$	150	$^\circ C$
Storage temperature	$T_{stg}$	-55 to +150	$^\circ C$

#### ■ Electrical Characteristics $T_a = 25^\circ C$

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$BV_{CB0}$	$I_c=100\mu A$	50			V
Collector-emitter breakdown voltage	$BV_{CE0}$	$I_c=1mA$	50			V
Emitter-base breakdown voltage	$BV_{EB0}$	$I_E=100\mu A$	5			V
Collector cutoff current	$I_{cB0}$	$V_{CB}=30V$			0.5	$\mu A$
Emitter cutoff current	$I_{EB0}$	$V_{EB}=4V$			0.5	$\mu A$
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_c/I_B=150mA/15mA$			0.4	V
DC current transfer ratio	$h_{FE}$	$V_{CE}=3V, I_c=0.01A$	120		390	
Output capacitance	$f_T$	$V_{CE}=5V, I_E=-20mA, f=100MHz$		250		MHz
Transition frequency	$C_{ob}$	$V_{CB}=10V, I_E=0A, f=1MHz$		6.5		pF

#### ■ $h_{FE}$ Classification

Marking	YQ	YR
$h_{FE}$	120~270	180~390