# High-current gain Power Transistor (60V, 3A) 2SD2318

### Features

1) High DC current gain.

- 2) Low saturation voltage.
- (Typ. Vce(sat) =0.5V at lc / IB=2A / 0.5A)
- 3) Complements the 2SB1639.

#### •Absolute maximum ratings (Ta=25°C)

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Parameter	Symbol	Limits	Unit V		
Collector-base voltage	Vсво	80			
Collector-emitter voltage	VCEO	60	V		
Emitter-base voltage	Vebo	6	V		
Collector current		3	А		
Collector current	lc	4.5	A(Pulse) *		
	Po	1	W		
Collector power dissipation	Dh Pc 15		W(Tc=25°C)		
Junction temperature	Tj	150	°C		
Storage temperature	Tstg	-55 to +150	°C		

\* Single pulse Pw=100ms

#### Packaging specifications and hFE

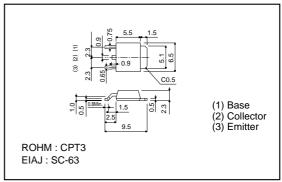
Туре	2SD2318
Package	CPT3
hfe	UV
Code	TL
Basic ordering unit (pieces)	2500

## •Electrical characteristics (Ta=25°C)

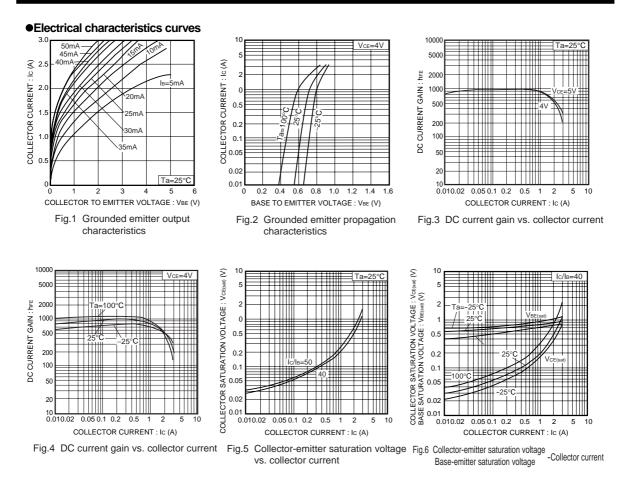
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions	
Collector-base breakdown voltage	ВУсво	80	-	-	V	Ic=50μA	
Collector-emitter breakdown voltage	BVCEO	60	-	-	V	Ic=1mA	
Emitter-base breakdown voltage	ВVево	6	-	-	V	Ιε=50μΑ	
Collector cutoff current	Ісво	-	-	100	μΑ	Vcb=80V	
Emitter cutoff current	Іево	-	-	100	μΑ	VEB=6V	
Collector-emitter saturation voltage	VCE(sat)	-	-	1.0	V	Ic/IB=2A/0.05A	*
Base-emitter saturation voltage	VBE(sat)	-	-	1.5	V	Ic/IB=2A/0.05A	*
DC current transfer ratio	hfe	560	-	1800	-	Vce/Ic=4V/0.5A	
Transition frequency	fт	-	50	-	MHz	Vce=5V, Ie=-0.2A, f=10MHz	
Output capacitance	Cob	-	60	-	pF	Vcb=10V, IE=0A, f=1MHz	*

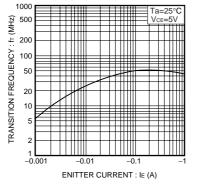
\*Measured using pulse current.

#### •External dimensions (Unit : mm)

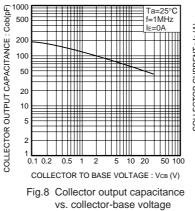


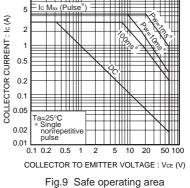
# Transistors











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