2SD2215, 2SD2215A

Silicon NPN triple diffusion planar type

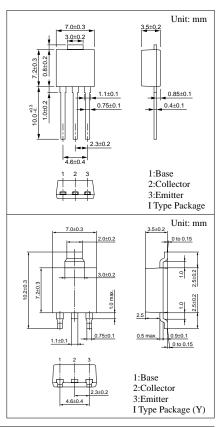
For power amplification

Features

- ullet High collector to base voltage V_{CBO}
- I type package enabling direct soldering of the radiating fin to the printed circuit board, etc. of small electronic equipment.

Absolute Maximum Ratings (T_C=25°C)

Parameter		Symbol	Ratings	Unit	
Collector to	2SD2215	V	350	V	
base voltage	2SD2215A	V_{CBO}	400		
Collector to	2SD2215	37	250	V	
emitter voltage	2SD2215A	V_{CEO}	300	V	
Emitter to base voltage		V_{EBO}	5	V	
Peak collector current		I_{CP}	1.5	A	
Collector current		I_{C}	0.75	A	
Collector power	T _C =25°C	D	15	337	
dissipation	Ta=25°C	P_{C}	1.3	W	
Junction temperature		T_{j}	150	°C	
Storage temperature		$T_{\rm stg}$	-55 to +150	°C	



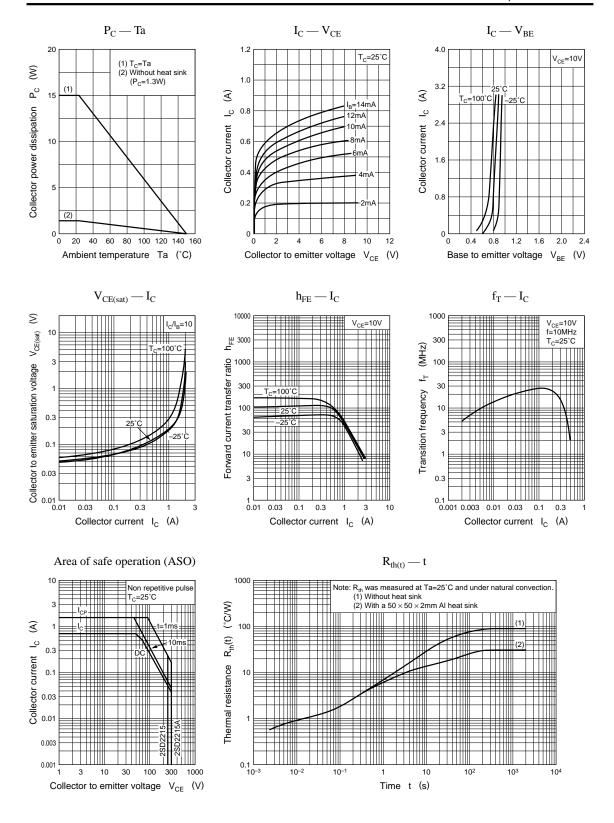
■ Electrical Characteristics (T_C=25°C)

Parameter		Symbol	Conditions	min	typ	max	Unit
Collector cutoff	2SD2215	т	$V_{CE} = 350V, V_{BE} = 0$			1	4
current	2SD2215A	I _{CES}	$V_{CE} = 400V, V_{BE} = 0$			1	mA
Collector cutoff	2SD2215	I _{CEO}	$V_{CE} = 150V, I_{B} = 0$			1	mA
current	2SD2215A		$V_{CE} = 200V, I_{B} = 0$			1	
Emitter cutoff curren	t	I _{EBO}	$V_{\rm EB} = 5V, I_{\rm C} = 0$			1	mA
Collector to emitter	2SD2215	- V _{CEO}	$I_{\rm C} = 30 {\rm mA}, I_{\rm B} = 0$	250			V
voltage	2SD2215A			300			
Forward current transfer ratio		h _{FE1} *	$V_{CE} = 10V, I_{C} = 0.3A$	70		250	
		h _{FE2}	$V_{CE} = 10V, I_{C} = 1A$	10			
Base to emitter voltage		V _{BE}	$V_{CE} = 10V, I_{C} = 1A$			1.5	V
Collector to emitter saturation voltage		V _{CE(sat)}	$I_C = 1A, I_B = 0.2A$			1	V
Transition frequency		f_T	$V_{CE} = 5V, I_C = 0.5A, f = 10MHz$		30		MHz
Turn-on time		t _{on}	I 1A I 01A I 01A		0.5		μs
Storage time		t _{stg}	$I_C = 1A$, $I_{B1} = 0.1A$, $I_{B2} = -0.1A$,		2		μs
Fall time		t _f	$V_{CC} = 50V$		0.5		μs

*h_{FE1} Rank classification

Rank	Q	P	
h_{FE1}	70 to 150	120 to 250	

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