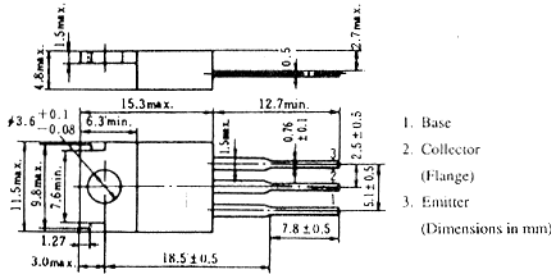
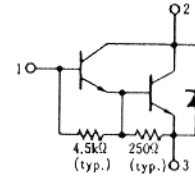


2SD1115K

SILICON NPN TRIPLE DIFFUSED
HIGH VOLTAGE SWITCHING, IGNITER



(JEDEC TO-220AB)

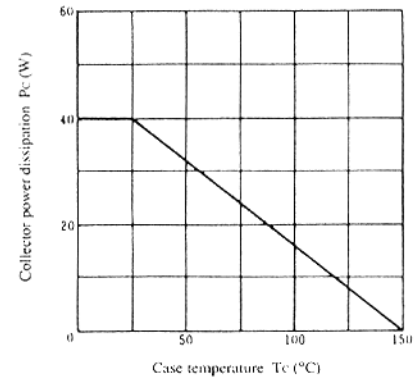


■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Item	Symbol	2SD1115K	Unit
Collector to base voltage	V _{CBO}	400	V
Collector to emitter voltage	V _{CEO}	300	V
Emitter to base voltage	V _{EBO}	7	V
Collector current	I _C	3	A
Collector peak current	i _{C(peak)}	6	A
Collector power dissipation	P _C *	40	W
Junction temperature	T _j	150	°C
Storage temperature	T _{sig}	-55 to +150	°C

* Value at T_c = 25°C.

MAXIMUM COLLECTOR DISSIPATION CURVE



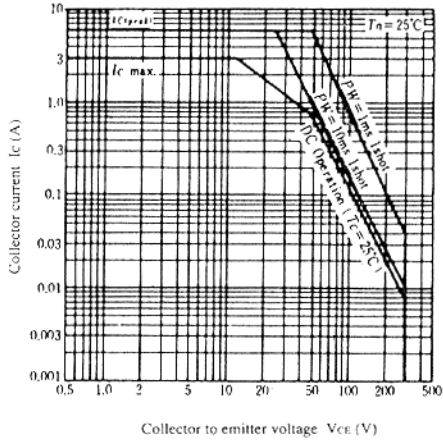
■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

Item	Symbol	Test Condition	min.	typ.	max.	Unit
Collector to base breakdown voltage	V _{(BR)CBO}	I _C = 0.1mA, I _E = 0	400	—	—	V
Collector to emitter sustain voltage	V _{CEO(sus)}	I _C = 2A, P _W = 50μs, f = 50Hz, L = 10mH	300	—	—	V
Emitter to base breakdown voltage	V _{(BR)EBO}	I _E = 50mA, I _C = 0	7	—	—	V
Collector cutoff current	I _{CEO}	V _{CE} = 300V, R _{BE} = ∞	—	—	100	μA
DC current transfer ratio	h _{FE}	V _{CE} = 2V, I _C = 2A*	500	—	—	
Collector to emitter saturation voltage	V _{CE(sat)}	I _C = 2A, I _B = 20mA*	—	—	1.5	V
Base to emitter saturation voltage	V _{BE(sat)}		—	—	2.0	V
Turn on time	t _{on}	I _C = 2A, I _{B1} = -I _{B2} = 20mA	—	1.0	—	μs
Turn off time	t _{off}		—	22	—	μs

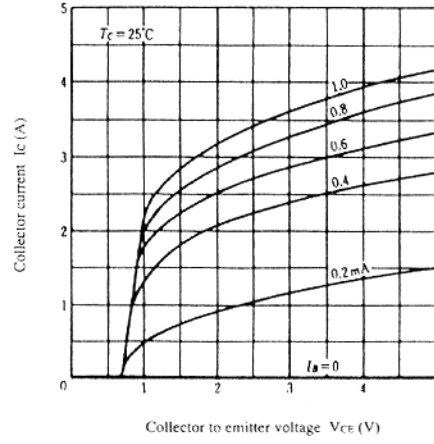
* Pulse Test.

2SD1115

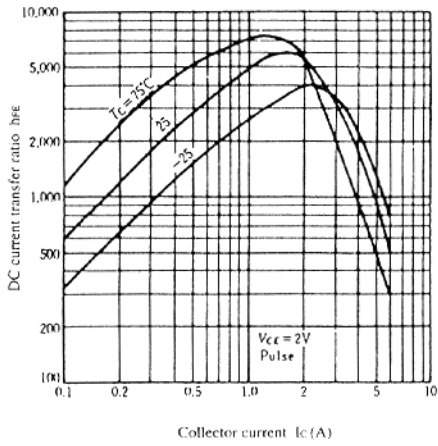
AREA OF SAFE OPERATION



TYPICAL OUTPUT CHARACTERISTICS



DC CURRENT TRANSFER RATIO VS. COLLECTOR CURRENT



SATURATION VOLTAGE VS. COLLECTOR CURRENT

