

BD643, BD645, BD647, BD649

ELECTRICAL CHARACTERISTICS, At Case Temperature (T_C) = 25°C
Unless Otherwise Specified

CHARACTERISTIC	TEST CONDITIONS				LIMITS				UNITS
	VOLTAGE V dc			CUR- RENT A dc	BD647		BD649		
	V _{CB}	V _{CE}	V _{BE}		I _C	Min.	Max.	Min.	
I _{CEO}		40 50			—	0.5	—	—	mA
I _{CBO}	80 100				—	0.2	—	—	
T _C = 100°C	80 100				—	2	—	—	
I _{EBO}			—5	0	—	2	—	2	
V _{(BR)CEO}				0.1 ^a	80	—	100	—	V
V _{(BR)CBO}				0.005	80	—	100	—	
V _{(BR)EBO} I _E = 2 mA					5	—	5	—	
h _{FE}		3 3 3		0.5 ^a 3 ^a 6 ^a	1500 ^b 750 750 ^b	—	1500 ^b 750 750 ^b	—	V
V _{BE}		3		3 ^a	—	2.5	—	2.5	
V _{CE(sat)} I _B = 12 mA				3 ^a	—	2	—	2	
f _T f = 1 MHz		3 3		3 3	1 10 ^b	—	1 10 ^b	—	MHz
R _{θJC}					—	2	—	2	°C/W

^a Pulsed; pulse duration = 200 μs , duty factor = 1%.

^b Typical value.

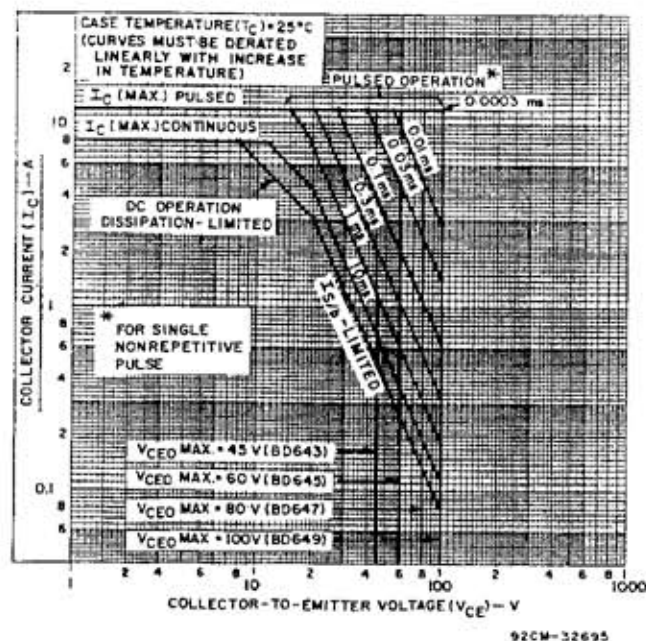


Fig. 3—Maximum operating area for all types.