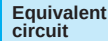


Darlington

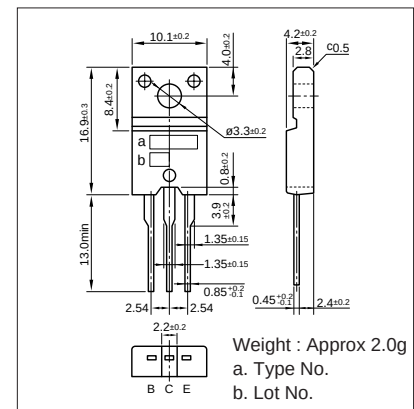


Application : Driver for Solenoid, Relay and Motor and General Purpose

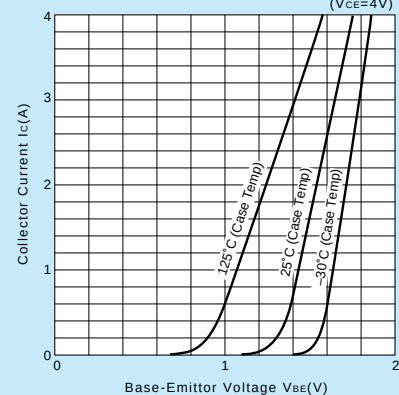
(Ta=25°C)

Symbol	Conditions	2SD2015	Unit
ICBO	V _{CB} =150V	10max	μA
IEBO	V _{EB} =6V	10max	mA
V(BR)CEO	I _C =10mA	120min	V
h _{FE}	V _{CE} =2V, I _C =2A	2000min	
V _{CE(sat)}	I _C =2A, I _B =2mA	1.5max	V
V _{BE(sat)}	I _C =2A, I _B =2mA	2.0max	V
f _T	V _{CE} =12V, I _E =-0.1A	40typ	MHz
COB	V _{CB} =10V, f=1MHz	40typ	pF

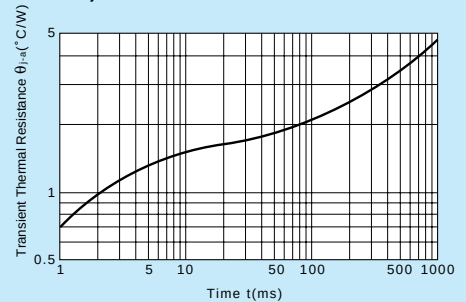
V _{CC} (V)	R _L (Ω)	I _C (A)	V _{BB1} (V)	V _{BB2} (V)	I _{B1} (mA)	I _{B2} (mA)	t _{on} (μs)	t _{stg} (μs)	t _f (μs)
40	20	2	10	−5	10	−10	0.6typ	5.0typ	2.0typ



I_C-V_{BE} Temperature Characteristics (Typical)



θ_{j-a-t} Characteristics



Pc-Ta Derating

