

7-UNIT 150mA DARLINGTON TRANSISTOR ARRAY WITH CLAMP DIODE

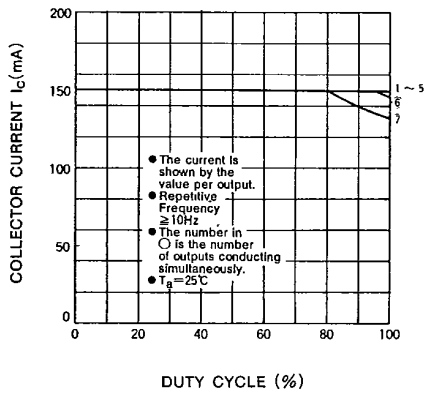
ELECTRICAL CHARACTERISTICS (T_a = -20~+75°C, unless otherwise noted)

Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ*	Max	
V _{(BR)CEO}	Output sustaining voltage	I _{CEO} = 100μA	40			V
V _{CE(sat)}	Output saturation voltage	V _I = 7V, I _C = 150mA		1.4	1.7	V
		V _I = 7V, I _C = 100mA		1.2	1.4	
I _I	Input current	V _I = 18V		0.9	1.8	mA
		V _I = 35V		1.9	5	
I _R	Input leakage current	V _I = -35V			-20	μA
V _{FD}	Clamp diode forward voltage	I _{FD} = 150mA		1.15	1.6	V
I _{RD}	Clamp diode leakage current	V _{RD} = 40V			100	μA
h _{FE}	DC forward current gain	V _{CE} = 4V, I _C = 150mA, T _a = 25°C	800	2500		—

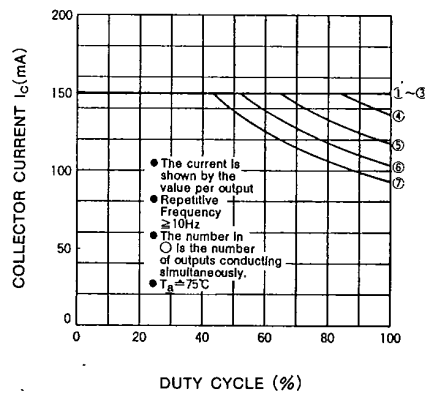
* : All typical values are at T_a = 25°C.

TYPICAL CHARACTERISTICS

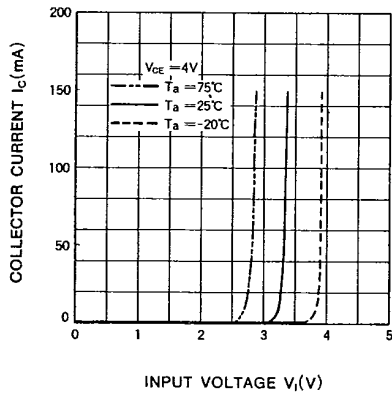
ALLOWABLE COLLECTOR CURRENT AS A FUNCTION OF DUTY CYCLE



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OUTPUT CURRENT CHARACTERISTICS



DC CURRENT GAIN CHARACTERISTICS

