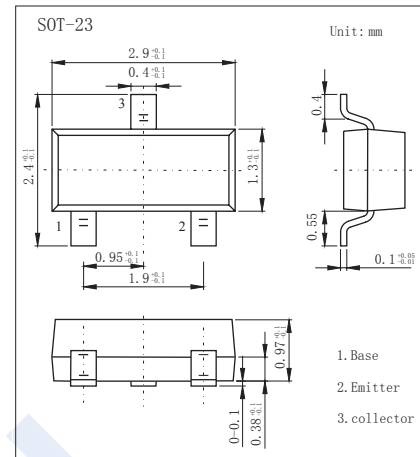


Power Darlington Transistors

FMMT634 (KMMT634)

■ Features

- Collector Current Capability $I_c=0.9A$
- Collector Emitter Voltage $V_{CE0}=100V$
- Complementary to FMMT734

■ Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CB0}	120	V
Collector - Emitter Voltage	V_{CE0}	100	
Emitter - Base Voltage	V_{EB0}	12	
Collector Current - Continuous	I_c	0.9	A
Collector Current - Pulse	I_{CP}	5	
Collector Power Dissipation	P_c	625	mW
Junction Temperature	T_J	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55 to 150	

Power Darlington Transistors

FMMT634 (KMMT634)

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V _{CBO}	I _C = 100 μA, I _E = 0	120			V
Collector- emitter breakdown voltage	V _{CEO}	I _C = 1 mA, I _B = 0	100			
Emitter - base breakdown voltage	V _{EB0}	I _E = 100 μA, I _C = 0	12			
Collector-base cut-off current	I _{CBO}	V _{CB} = 120 V, I _E = 0			100	nA
Collector- emitter cut-off current	I _{CES}	V _{CE} = 80 V, I _E = 0			100	
Emitter cut-off current	I _{EB0}	V _{EB} = 12V, I _C =0			100	
Collector-emitter saturation voltage (Note.1)	V _{CE(sat)}	I _C =100 mA, I _B =1mA			0.75	V
		I _C =250 mA, I _B =1mA			0.8	
		I _C =500 mA, I _B =5mA			0.85	
		I _C =900 mA, I _B =5mA			0.93	
		I _C =900 mA, I _B =5mA, T _J = 150°C		0.68		
		I _C =1 A, I _B =5mA			0.96	
Base - emitter saturation voltage (Note.1)	V _{BE(sat)}	I _C =1 A, I _B =5mA			1.65	
Base-Emitter Turn-On Voltage	V _{BE(on)}	V _{CE} =5V, I _C = 1 A			1.5	
DC current gain (Note.1)	h _{FE}	V _{CE} =5V, I _C = 10mA		50K		
		V _{CE} =5V, I _C = 100mA	20K	60K		
		V _{CE} =5V, I _C = 1 A	15K	40K		
		V _{CE} =5V, I _C = 2 A	5K	14K		
		V _{CE} =5V, I _C = 5 A		600		
		V _{CE} =2V, I _C = 1 A		24K		
Turn-On Time	t _{on}	I _C =500mA V _{CC} =20V		290		nS
Turn-Off Time	t _{off}	I _B =±1mA		2.4		uS
Collector output capacitance	C _{ob}	V _{CB} = 10V, f=1MHz			20	pF
Transition frequency	f _T	V _{CE} = 10V, I _C = 50mA, f=100MHz		140		MHz

Note.1 Pulse width=300us. Duty cycle ≤ 2%.

■ Marking

Marking	634
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■ Typical Characteristics

