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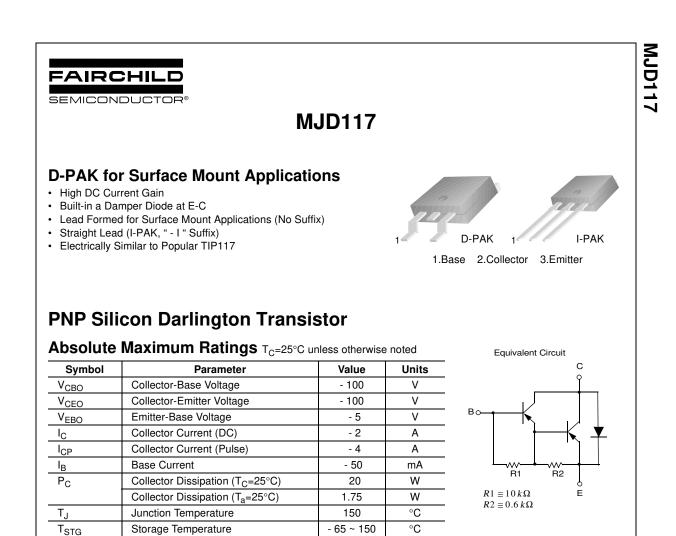


ON Semiconductor®

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Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (_), the underscore (_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.onsemi.com. Please email any questions regarding the system integration to Fairchild_questions@onsemi.com.

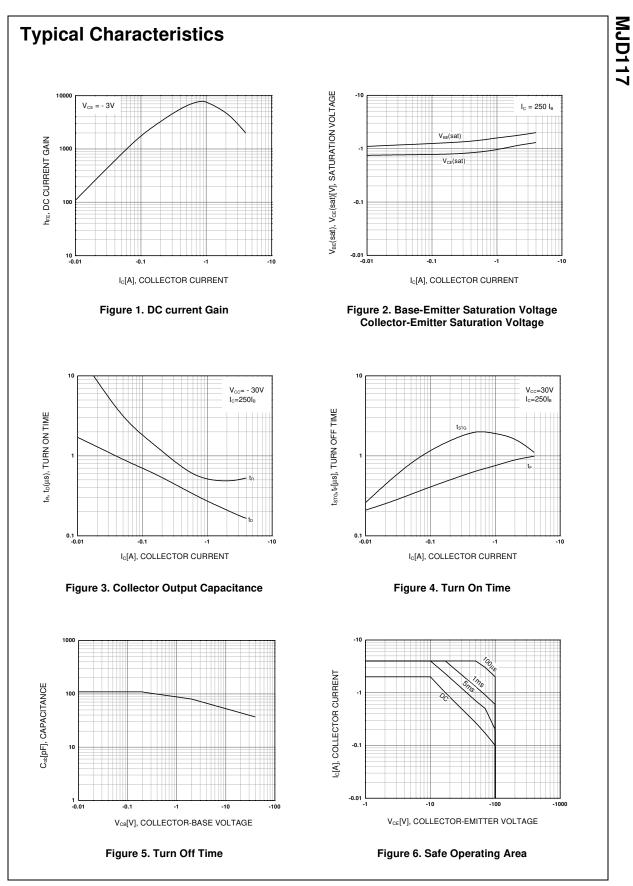
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Electrical Characteristics T_C=25°C unless otherwise noted

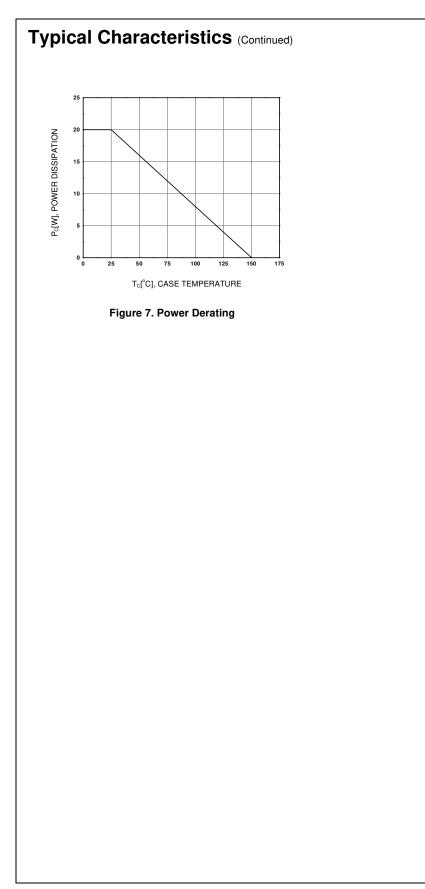
Symbol	Parameter	Test Condition	Min.	Max.	Units
V _{CEO} (sus)	*Collector-Emitter Sustaining Voltage	I _C = - 30mA, I _B = 0	- 100		V
I _{CEO}	Collector Cut-off Current	$V_{CE} = -50V, I_B = 0$		- 20	μΑ
I _{CBO}	Collector Cut-off Current	$V_{CB} = -100V, I_E = 0$		- 20	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$		- 2	mA
h _{FE}	*DC Current Gain	$V_{CE} = -3V, V_{EB} = -0.5A$ $V_{CE} = -3V, V_{EB} = -2A$ $V_{CE} = -3V, I_C = -4A$	500 1000 200	12K	
V _{CE} (sat)	*Collector-Emitter Saturation Voltage	$I_{C} = -2A, I_{B} = -8mA$ $I_{C} = -4A, I_{B} = -40mA$		- 2 - 3	V V
V _{BE} (sat)	*Base-Emitter Saturation Voltage	I _C = - 4A, I _B = - 40mA		- 4	V
V _{BE} (on)	*Base-Emitter ON Voltage	V _{CE} = - 3A, I _C = - 2A		- 2.8	V
f _T	Current Gain Bandwidth Product	V _{CE} = -10V, I _C = - 0.75A	25		MHz
C _{ob}	Output Capacitance	V _{CB} = - 10V, I _E = 0 f= 0.1MHz		200	pF

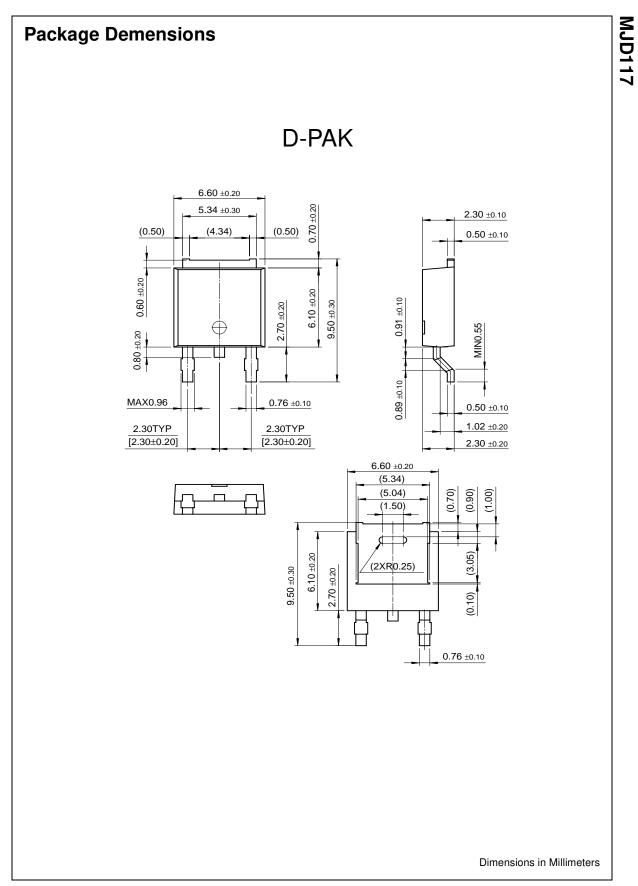
* Pulse Test: PW≤300µs, Duty Cycle≤2%



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