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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



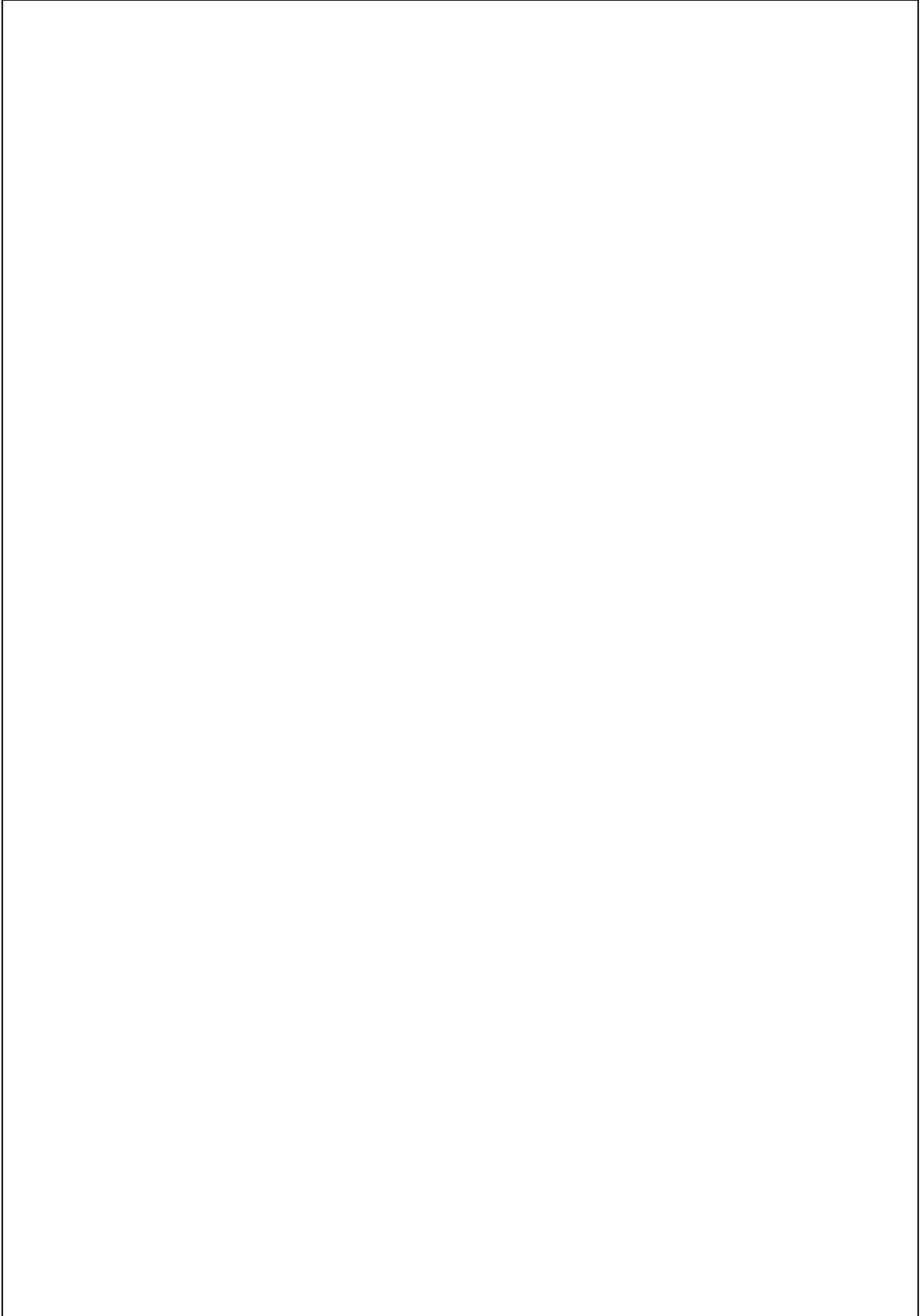
NPN Epitaxial Silicon Transistor

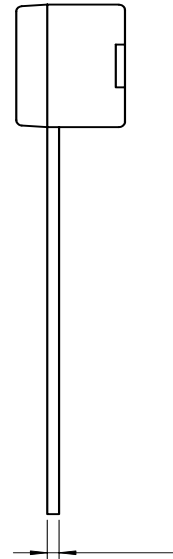
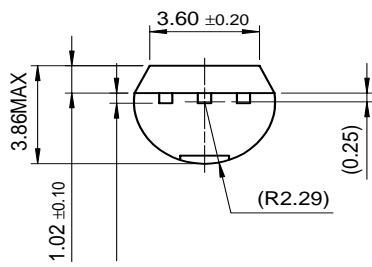
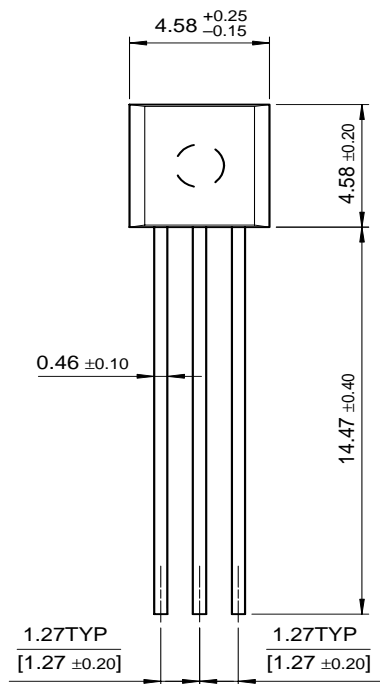
Absolute Maximum Ratings $T_a=25^\circ\text{C}$ unless otherwise noted

Electrical Characteristics $T_a=25^\circ$

μA

EBO	Emitter Cut-off Current	$V_{EB}=4\text{V}, I_C=0$		0.1	μA
h_{FE}	DC Current Gain	$V_{CE}=6\text{V}, I_C=1\text{mA}$	40	240	
$V_{BE(on)}$	Base-Emitter On Voltage	$V_{CE}=6\text{V}, I_C=1\text{mA}$		0.72	V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=10\text{mA}, I_B=1\text{mA}$		0.1	0.3
f_T	Current Gain Bandwidth Product	$V_{CE}=6\text{V}, I_C=1\text{mA}$	400	600	MHz
C_{ob}	Output Capacitance	$V_{CB}=6\text{V}, I_E=0, f=1\text{MHz}$		1.2	pF
$C_{c-rbb'}$	Collector-Base Time Constant	$V_{CE}=6\text{V}, I_C=1\text{mA}$ $f=31.9\text{MHz}$		12	15
NF	Noise Figure	$V_{CE}=6\text{V}, I_C=1\text{mA}$ $R_S=50\Omega$			





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