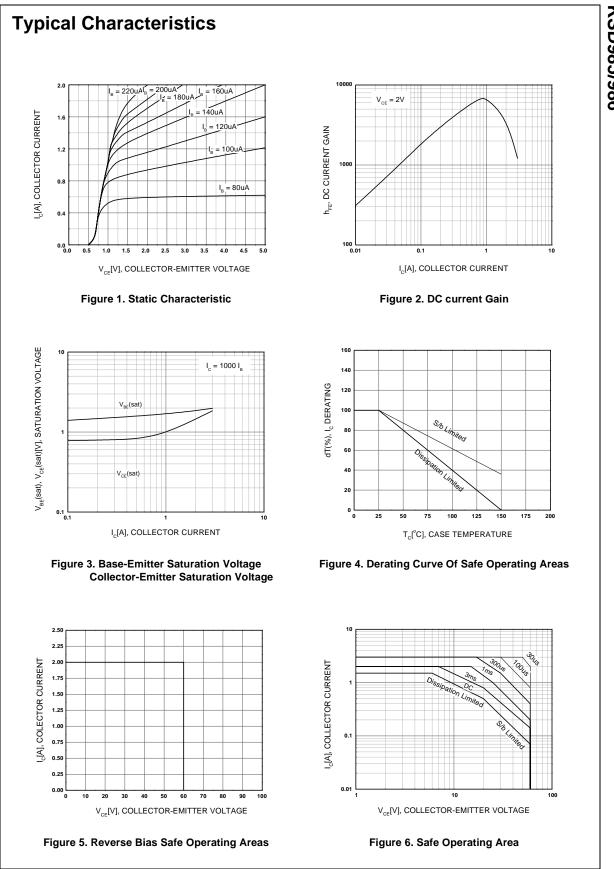


Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I _{CBO}	Collector Cut-off Current	$V_{CB} = 60V, I_E = 0$			10	μΑ
I _{CER}	Collector Cut-off Current	$V_{CE} = 60V, R_{BE} = 51\Omega$ @ T _C = 125°C			1.0	mA
I _{CEX1} I _{CEX2}	Collector Cut-off Current	$V_{CE} = 60V, V_{BE}(off) = -1.5A$ $V_{CE} = 60V, V_{BE}(off) = -1.5A$ @ T _C = 125°C			10 1.0	μA mA
I _{EBO}	Emitter Cut-off Current	$V_{EB} = 5V, I_{C} = 0$			1.0	mA
h _{FE1} h _{FE2}	*DC Current Gain	$V_{CE} = 2V, I_{C} = 0.5A$ $V_{CE} = 2V, I_{C} = 1A$	1000 2000		30000	
V _{CE} (sat)	*Collector-Emitter Saturation Voltage	$I_{\rm C} = 1$ A, $I_{\rm B} = 1$ mA			1.5	V
V _{BE} (sat)	*Base-Emitter Saturation Voltage	$I_{\rm C} = 1$ A, $I_{\rm B} = 1$ mA			2.0	V
t _{ON}	Turn ON Time	$V_{CC} = 50V, I_{C} = 1A$		0.5		μs
t _{STG}	Storage Time	I _{B1} = - I _{B2} = 1mA		1.0		μs
t _F	Fall Time	$R_{L} = 50\Omega$		1.0		μs
t _F	8	$R_{L} = 50\Omega$		-		

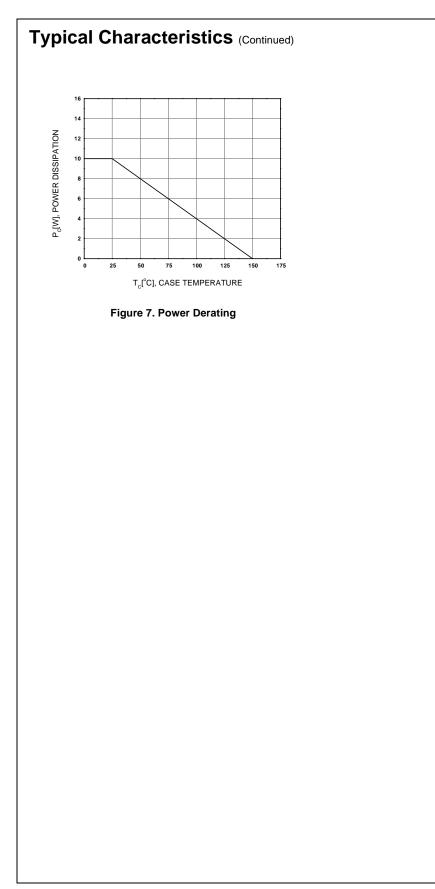
h_{FE} Classification

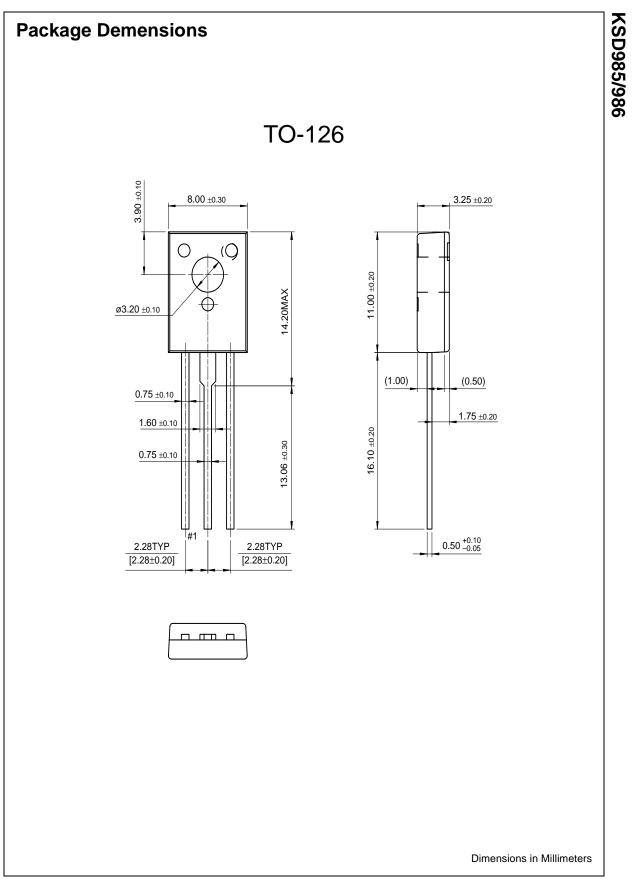
Classification	R	0	Y	
h _{FE2}	2000 ~ 5000	4000 ~ 10000	8000 ~ 30000	

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KSD985/986





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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.



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KSD986

NPN Epitaxial Silicon Darlington Transistor

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<u>Support</u>

Sales support

Quality and reliability

Design center

Package type Packing method Package Marking Convention** Product **Pb-free Status** Pricing* Leads Product status Line 1: **\$Y** (Fairchild logo) KSD986OS **Full Production** \$0.194 TO-126 3 BULK &3 (3-Digit Date Code) Full Line 3: D986-O Production Line 1: **\$Y** (Fairchild logo) KSD986YS 3 BULK Full Production \$0.194 TO-126 &3 (3-Digit Date Code) Full Line 3: D986-Y Production Line 1: **\$Y** (Fairchild logo) KSD986YSTSSTU **Full Production** \$0.194 TO-126 3 RAIL &**3** (3-Digit Date Code) Full Production

* Fairchild 1,000 piece Budgetary Pricing ** A sample button will appear if the part is available through Fairchild's on-line samples program. If there is no sample button, please contact a <u>Fairchild distributor</u> to obtain samples

Ø Indicates product with Pb-free second-level interconnect. For more information click here.

Package marking information for product KSD986 is available. Click here for more information .

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Models

Package & leads	Condition	Temperature range	Software version	Revision date	
PSPICE					
TO-126-3	Electrical	-25°C to 125°C	9.2	Jan 8, 2002	

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Qualification Support

Click on a product for detailed qualification data

Product
KSD986OS
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KSD986YSTSSTU

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