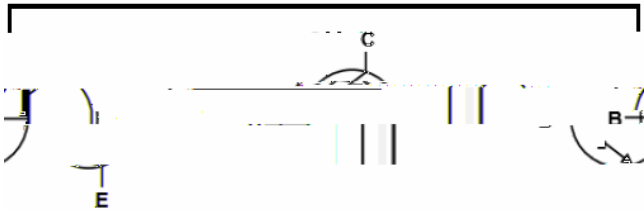




NPN General Purpose Transistor



- Features
- z /HDG)UHH)LQLVK 5R+6 &RPSOLDQW
 - z 6PDOO SDFNDJH VDYHV ERDUG VSDFH
 - z 0RLVWXUH 6HQVLWLYLW\ /HYHO



- Mechanical Data
- z Package ')1 /
 - z Terminals 7LQ SODWHG OHDGV VROGHUDEOH - (6' %
 - z Marking '

Maximum Ratings

Symbol	Parameter	Value	Unit
9 & % 2	&ROOHFWRU %DVH 9ROWDJH		
9 & (2	&ROOHFWRU (PLWWHU 9ROWDJH		
9 (% 2	(PLWWHU %DVH 9ROWDJH		9
, &	&ROOHFWRU &XUUHQW		P \$
3 &	&ROOHFWRU 3RZHU 'LVVLSDWLRQ		P :
7 M	-XQFWLRQ 7HPSHUDWXUH		-
7 VWJ	6WRUDJH 7HPSHUDWXUH		-

Ordering Information

PREFERED P/N	UNIT WEIGHT(mg)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
% & % 0	\$SSUR[LPDW H		.	.	7 DSH 5



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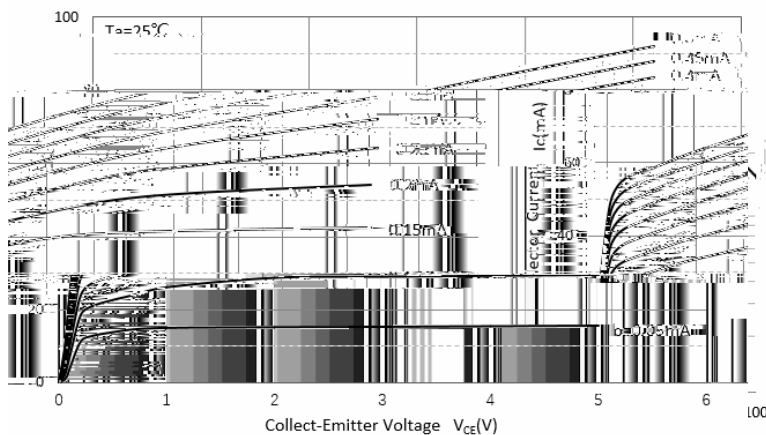
Electrical Characteristics						
Parameter	Symbol	Test conditions	Min	TYP	Max	Unit
&ROOHFWRU EDVH EUHDNGRZQ YROWDJH		— \$ 9				9
&ROOHFWRU HPLWWHU EUHDNGRZQ YROWDJH		\$, % 9				9
(PLWWHU EDVH EUHDNGRZQ YROWDJH , (— \$ 9 , &						9
&ROOHFWRU EDVH FXW RII FXUUHQW		9 & % 9 „ (				Q \$
(PLWWHU EDVH FXW RII FXUUHQW		9 (% 9 , , &				Q \$
' & FXUUHQW JDLQ		) (K 9 & (9 , & P \$				
&ROOHFWRU HPLWWHU VDWXUDWLRQ YROWDJH		9 & (VDW , & P \$, % P \$				P 9
		9 & (VDW , & P \$, % P \$				P 9
% DVH HPLWWHU VDWXUDWLRQ YROWDJH		9 & (VDW , & P \$, % P \$				9
% DVH HPLWWHU YROWDJH		9 & (9 , & P \$				P 9
		9 & (9 , & P \$				P 9
7UDQVLWLRQ IUHTXHQF\		9 & (9 , & P \$				0 +]
&ROOHFWRU EDVH RXWSXW FDSDFLWDQFH		& RE 9 & % 9 I 0 +]				



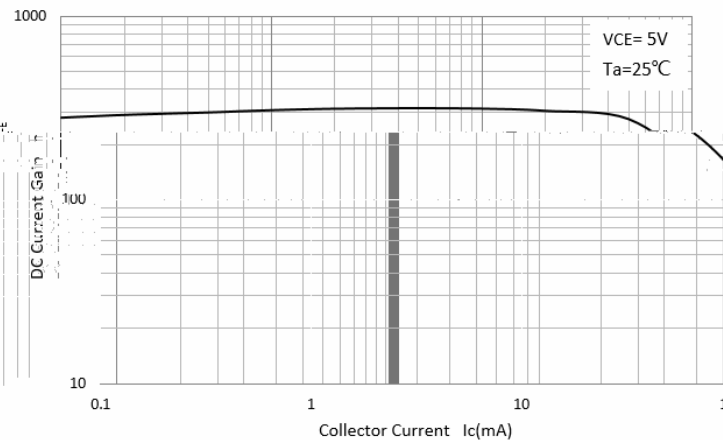
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vCharacteristics 7\SLFDO

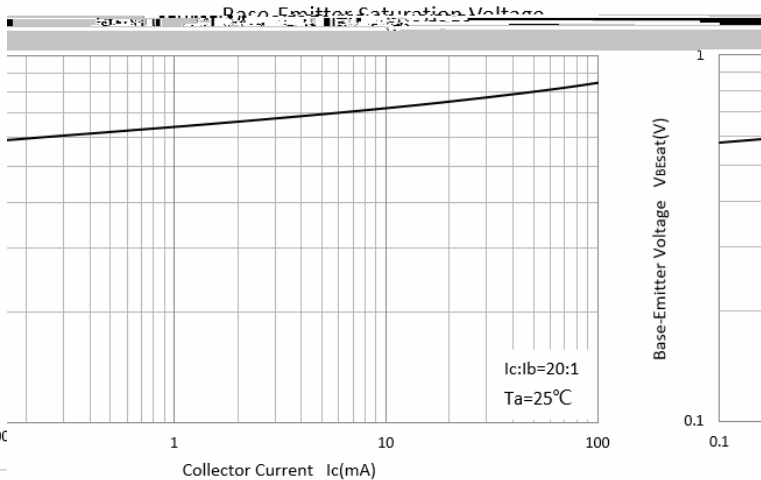
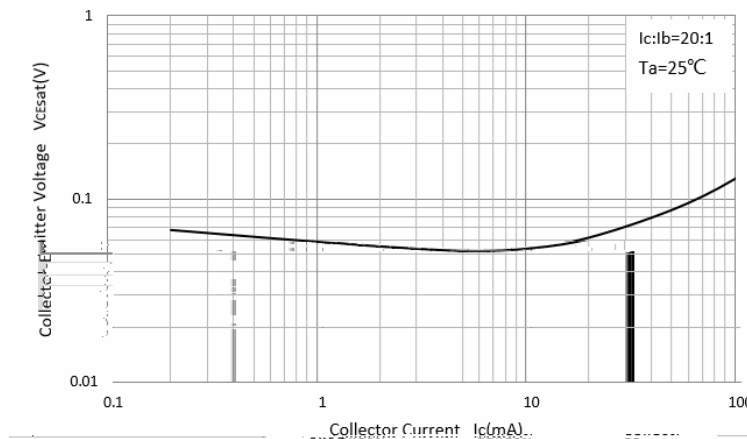
Static Characteristic



DC Current Gain



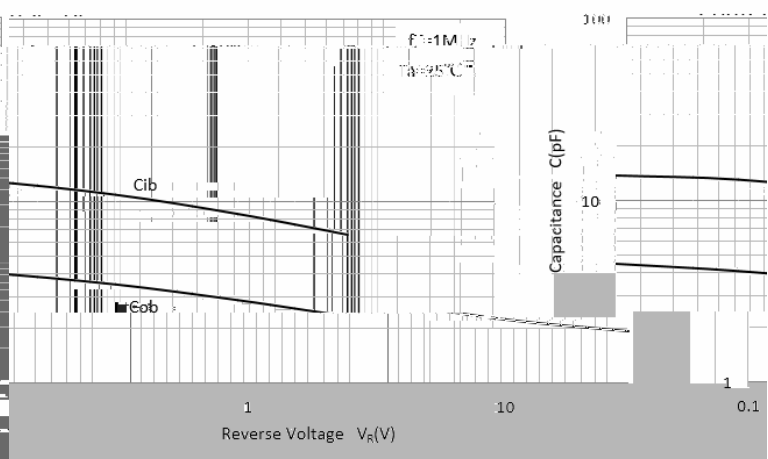
Collector-Emitter Saturation Voltage



Base-Emitter On Voltage



$C_{ob}/C_{ib}:V_{ce}/V_{fb}$



Technical drawing of a mechanical part showing three views: TOP VIEW, SIDE VIEW, and BOTTOM VIEW. The drawing includes dimensions in millimeters and a table of dimensions.

Table of Dimensions:

DIMENSIONS	
Millimeter	
SYMBOL	MAX.
A	0.42
A1	0.025 REF
A2	0.55
A3	0.55
A4	0.55
A5	0.55
A6	0.55
A7	0.55
A8	0.55
A9	0.55
A10	0.55
A11	0.55
A12	0.55
A13	0.55
A14	0.55
A15	0.55
A16	0.55
A17	0.55
A18	0.55
A19	0.55
A20	0.55
A21	0.55
A22	0.55
A23	0.55
A24	0.55
A25	0.55
A26	0.55
A27	0.55
A28	0.55
A29	0.55
A30	0.55
A31	0.55
A32	0.55
A33	0.55
A34	0.55
A35	0.55
A36	0.55
A37	0.55
A38	0.55
A39	0.55
A40	0.55
A41	0.55
A42	0.55
A43	0.55
A44	0.55
A45	0.55
A46	0.55
A47	0.55
A48	0.55
A49	0.55
A50	0.55
A51	0.55
A52	0.55
A53	0.55
A54	0.55
A55	0.55
A56	0.55
A57	0.55
A58	0.55
A59	0.55
A60	0.55
A61	0.55
A62	0.55
A63	0.55
A64	0.55
A65	0.55
A66	0.55
A67	0.55
A68	0.55
A69	0.55
A70	0.55
A71	0.55
A72	0.55
A73	0.55
A74	0.55
A75	0.55
A76	0.55
A77	0.55
A78	0.55
A79	0.55
A80	0.55
A81	0.55
A82	0.55
A83	0.55
A84	0.55
A85	0.55
A86	0.55
A87	0.55
A88	0.55
A89	0.55
A90	0.55
A91	0.55
A92	0.55
A93	0.55
A94	0.55
A95	0.55
A96	0.55
A97	0.55
A98	0.55
A99	0.55
A100	0.55

1. *Journal of the American Medical Association*, 2000; 283: 2689-2693.



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Disclaimer

7KH LQIRUPDWLRQ V GHVFHQWQV LQ WKULFDHQHJKRXFHDROQDZHF(KQHFOVRURQLF /WHG UHV
ULJKW WR PDNIHWKRDQW HQRZVSHFIRIWLADWSLRQG RFWV GLVSPDARIYGHKWHWGHLDQEWGMLV L JQQ F
RU RWKHUZZLVH
7KH SURGXFWQLVGHV/KJHGL WR EHHKWHGWZLRQK R H G X Q S P H Q W RU GHYLFHWWKDQG Q
HTXLSPHQW RU GHYLFHV ZKLFK UHTXLWKKHEDIO IOZQVWOL RQXQWHGQDDEHGHAWK DPHKQDOLIH
PHGLFDO LQVWUXEHMSRUWHDQWL RQHUTXLSPEH QDFIOHQ U UHDFWKHIO FFRQWUURDQHWV DQ
GHYLFHV <DQJMLHVRV DQKQ H DQVXRLOV QARRWHO SREQLQIEWHVR O VDIQQ JGIDRPJMMFK LP
RIVDOH
7KLV SXEOLFDWLREHSDSHUW HDGDLQURQAPDWSLROQLSGHYRLR XVGGLWLRQDO LQWRUPDWLR
KWS ZZZ \DQJMLH FRP RU FRQDQW RRLUFHQHFDW HXVWWKDQJ DVM VWDQFH