

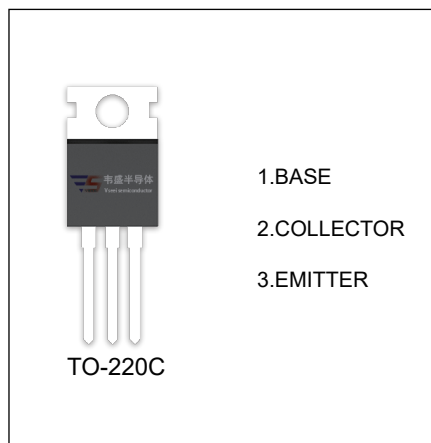
3DD13005ND66 75\$16I6725 (131)

FEATURES

- 3RZHU VZiWFKiQJ DSSOiFDWiRQV
- *RRG KiJK WHPSHUDWXUH
- /RZ VDWXUDWiRQ YROWDJH
- +iJK VSHHG VZiWFKiQJ

MAXIMUM RATINGS (T_a=25 ℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	&ROOHFWRU-%DVH 9ROWDJH	700	9
V _{CEO}	&ROOHFWRU-(PiWWHU 9ROWDJH	420	9
V _{EBO}	(PiWWHU-%DVH 9ROWDJH	9	9
I _C	&ROOHFWRU &XUUHQW -&RQWiQXR XV	4	\$
P _C	&ROOHFWRU 3RZHU DiViSDWiRQ	2	=
R _{θJA}	7KHUPDO 5HVIVWDQFH IURP JXQFWiRQ WR \$PEiHQW	62.5	Я/ =
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55-150	Я



ELECTRICAL CHARACTERISTICS (T_a=25 ℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	9(%5)&%2	I _B = 1P\$, I _C =0	700			9
Collector-emitter breakdown voltage	9(%5)&(2	I _B = 10P\$, I _C =0	420			9
Emitter-base breakdown voltage	9(%5)(%2	I _C = 1P\$, I _B =0	9			9
Collector cut-off current	I _B %2	9 _{&} =7009, I _C =0			100	⊠\$
Collector cut-off current	I _B (2	9 _{&} =4009, I _C =0			100	⊠\$
Emitter cut-off current	I _C (%2	9 ₍ =79, I _B =0			100	μ\$
DC current gain	K _Y ((1)	9 _{&} =59, I _B =1\$	10		40	
	K _Y ((2)	9 _{&} =59, I _B =200P\$	10		60	
	K _Y ((3)	9 _{&} =59, I _B =10P\$	5			
	K _Y ((4)	9 _{&} =59, I _B =4\$	8		40	
Collector-emitter saturation voltage	9 _{&} ((VDW)(1)	I _B =1\$, I _C =0.2\$			0.3	9
	9 _{&} ((VDW)(2)	I _B =2\$, I _C =0.4\$	\$ %	0.15 0.25	0.28 0.35	9 9
	9 _{&} ((VDW)(3)	I _B =4\$, I _C =1\$			0.8	9
Base-emitter saturation voltage	9 ₍ ((VDW)	I _B =2\$, I _C =0.5\$			1.6	9
Diode forward voltage	9 _Y (&	I _B =2\$			2	9
Transition frequency	I ₇	9 _{&} (=109, I _B =0.5\$, I=10+]	5			O+]
Rise time	W _U	I _B =250P\$			0.5	⊠V
Storage time	W ₆	I _B =250P\$	2.0		4.0	
Fall time	W _I	I _B =250P\$			0.5	

CLASSIFICATION of h_{FE(2)}

Range	10~15	15~20	20~25	25~30	30~35	35~40	40~45	45~50	50~55	55~60
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CLASSIFICATION of W₆(⊠V)

Rank	A		B	
	A1	A2	B1	B2
Range	2.0-2.5	2.5-3.0	3.0-3.5	3.5-4.0

