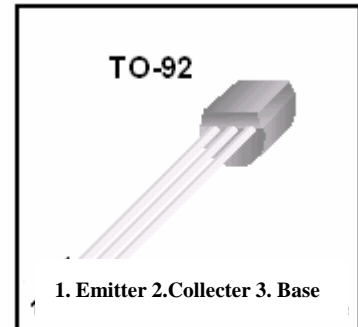


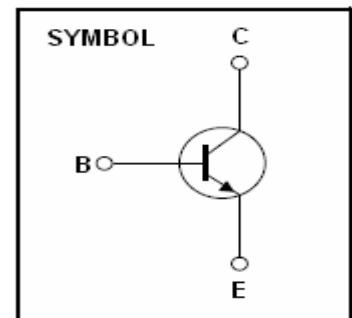
**FEATURES:** High Voltage Capability  
High Speed Switching  
Wide SOA

**APPLICATIONS:** Fluorescent Lamp  
Electronic Ballast  
Electronic Transformer



**LIMITING VALUES**( $T_j=25^{\circ}\text{C}$  Unless Otherwise Stated )

Parameter	Symbol	Value	Unit
Collector-Base Voltage	$V_{CB0}$	600	V
Collector-Emitter Voltage	$V_{CE0}$	400	V
Emitter-Base Voltage	$V_{EB0}$	9	V
Collector Current	$I_c$	1.5	A
Total Power Dissipation	$P_c$	20	W
Storage Temperature	$T_{stg}$	-65~150	$^{\circ}\text{C}$
Junction Temperature	$T_j$	150	$^{\circ}\text{C}$



**ELECTRICAL CHARACTERISTICS** ( $T_j=25^{\circ}\text{C}$  Unless Otherwise Stated)

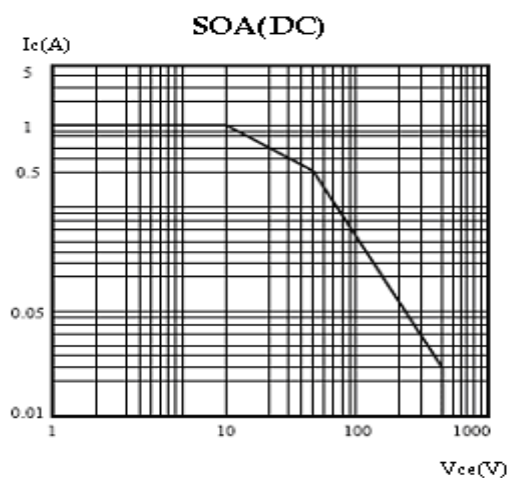
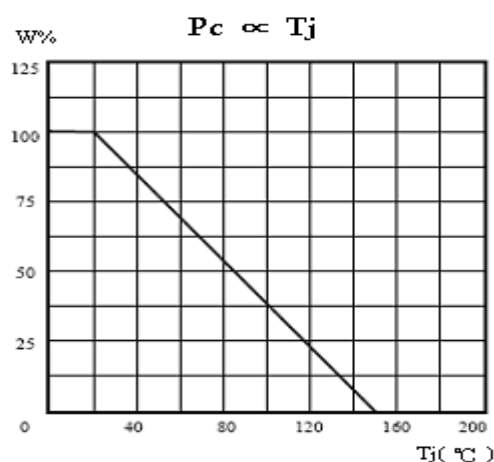
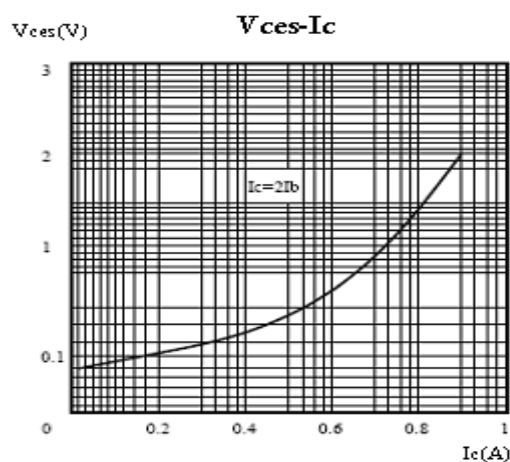
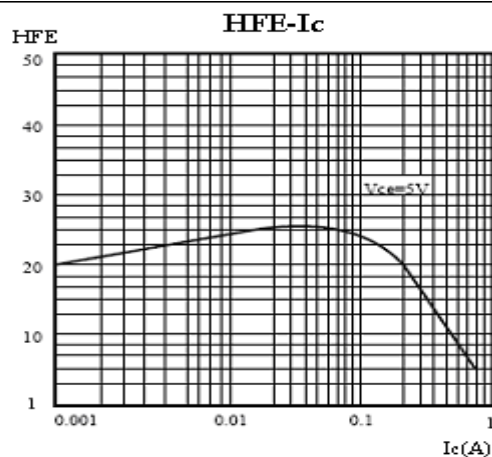
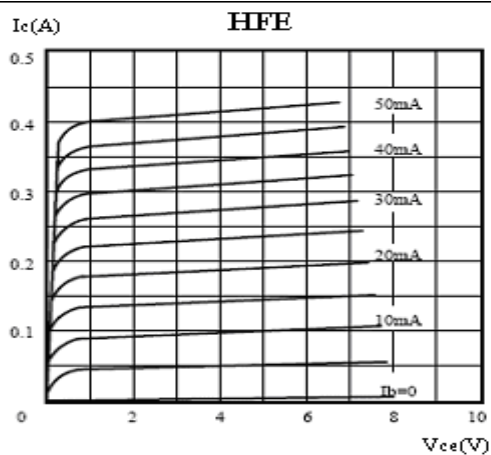
Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-Base Breakdown Voltage	$BV_{CB0}$	$I_c=0.5\text{mA}, I_e=0$	600		V
Collector-Emitter Breakdown Voltage	$BV_{CE0}$	$I_c=10\text{mA}, I_b=0$	400		V
Emitter-Base Breakdown Voltage	$BV_{EB0}$	$I_e=1\text{mA}, I_c=0$	9		V
Collector-Base Cutoff Current	$I_{CB0}$	$V_{cb}=550\text{V}, I_e=0$		10	$\mu\text{A}$
Collector-Emitter Cutoff Current	$I_{CE0}$	$V_{ce}=400\text{V}, I_b=0$		20	$\mu\text{A}$
Emitter-Collector Cutoff Current	$I_{EBO}$	$V_{eb}=9\text{V}, I_c=0$		20	$\mu\text{A}$
DC Current Gain	$h_{FE(1)}$	$V_{ce}=5\text{V}, I_c=100\text{mA}$	10	40	
DC Current Gain	$h_{FE(2)}$	$V_{ce}=5\text{V}, I_c=1\text{mA}$	9		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_c=0.75\text{A}, I_b=0.25\text{A}$		0.7	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_c=0.75\text{A}, I_b=0.25\text{A}$		1.2	V
Storage Time	$T_s$	$V_{CC}=250\text{V}$ $I_c=5I_B$		3	
Falling Time	$T_f$	$I_{B1}=-I_{B2}=0.2\text{A}$		0.8	$\mu\text{S}$



# MICRO ELECTRONIC

## 13003A

HIGH  
VOLTAGE  
POWER  
TRANSISTOR



MICRO ELECTRONICS LTD.

7th Floor. Enterprise Square Three. 39 Wang Chiu Road. Kowloon Bay. Kowloon.

Fax No. 2341 0321 Telex: 43510 Micro Hx. Tel: 2343 0181-5

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Jan-08

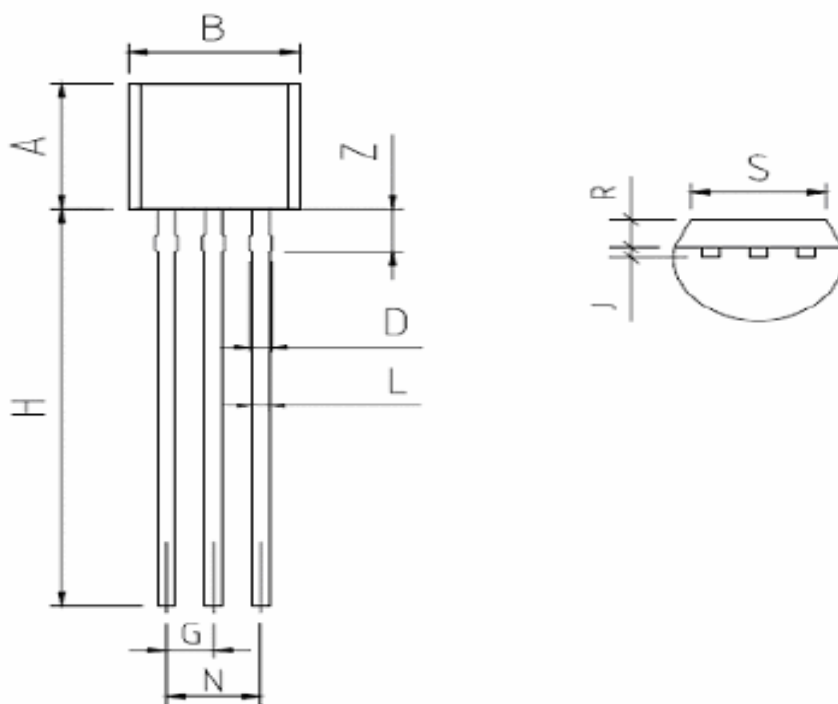
# MELECTRONIC MICRO

## 13003A

HIGH  
VOLTAGE  
POWER  
TRANSISTOR

### T0-92 MECHANICAL DATA

UNIT: mm



SYMBOL	Min	Nom	Max
A	4.4	4.6	4.8
B	4.0	4.2	4.5
C			
D	0.45	0.50	0.55
F			
G		1.27	
H			
J	0.32	0.35	0.38
K			
L	0.40	0.45	0.50
N		2.54	
P			
Q			
R	1.4	1.5	1.6
S	3.8	4.0	4.2
Z		2.0	2.2



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