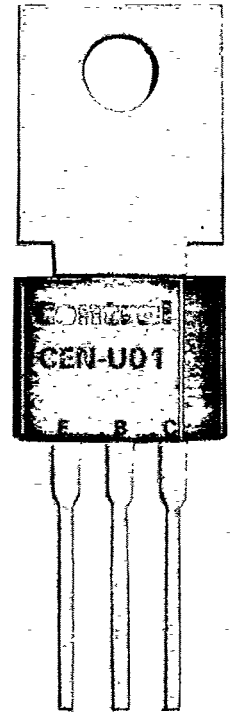


# Central's CEN-U

## Power

## Transistors



Ideal second source for Motorola's MPS-U series power transistors  
Exact electrical equivalent in JEDEC TO-202 case.

- Superior power dissipation  
 $P_D$  ( $T_A = 25^\circ\text{C}$ ) 1.75 Watts vs. 1.0 Watt Motorola
- Rugged package
- Pin for pin replacement
- Good availability
- Up to 25% lower unit cost

### CROSS REFERENCE

MOTOROLA PART NUMBER	CENTRAL PART NUMBER	MOTOROLA PART NUMBER	CENTRAL PART NUMBER
MPS-U01	CEN-U01	MPS-U51	CEN-U51
MPS-U01A	CEN-U01A	MPS-U51A	CEN-U51A
MPS-U02	CEN-U02	MPS-U52	CEN-U52
MPS-U05	CEN-U05	MPS-U55	CEN-U55
MPS-U06	CEN-U06	MPS-U56	CEN-U56
MPS-U07	CEN-U07	MPS-U57	CEN-U57
MPS-U10	CEN-U10	MPS-U95	CEN-U95
MPS-U45	CEN-U45		

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

TYPE NUMBER		$I_C$	$V_{CEO}$	$P_D$ (MAX) $T_A = 25^\circ\text{C}$	$P_D$ (MAX) $T_C = 25^\circ\text{C}$	$h_{FE} @ I_C$		$V_{CE}$ (SAT) MAX @ $I_C$		$f_T$ MIN	CASE
NPN	PNP	AMPS	VOLTS	WATTS	WATTS	MIN/MAX	AMPS	VOLTS	AMPS	MHz	
CEN-U10		0.1	300	1.75	10	40	0.03	1.5	0.02	60	 TO-202(EBC)
CEN-U01	CEN-U51	2.0	30	1.75	10	60	0.1	0.5	1.0	50	
CEN-U01A	CEN-U51A	2.0	40	1.75	10	60	0.1	0.5	1.0	50	
CEN-U02	CEN-U52	2.0	40	1.75	10	50/300	0.15	0.4	0.15	50	
CEN-U45	CEN-U95	2.0	40	1.75	10	25K/150K	0.2	1.0	0.2	100	
CEN-U05	CEN-U55	2.0	60	1.75	10	80	0.05	0.5	0.25	50	
CEN-U06	CEN-U56	2.0	80	1.75	10	80	0.05	0.5	0.25	50	
CEN-U07	CEN-U57	2.0	100	1.75	10	80	0.05	0.5	0.25	50	

For complete Specification Sheets, consult factory.

# Central<sup>TM</sup> Semiconductor Corp.

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TEL: (516) 435-1110 • TWX (510) 224-6493

MANUFACTURERS OF DISCRETE SEMICONDUCTORS

# CASE OUTLINE DRAWINGS

D



CASE A

CBR1 Series  
CBR2 Series



CASE B

CBR1-L Series  
CBR2-L Series



CASE C

CBR3-P Series



CASE D

CBR4-L Series



CASE E

CBR8 Series



CASE F

CBR10 Series, CBR25 Series  
CBR12 Series, CBR30 Series

All Dimensions in Inches (Millimeters)

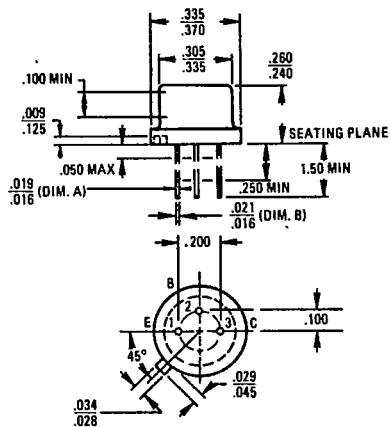
Drawings Not To Scale

f

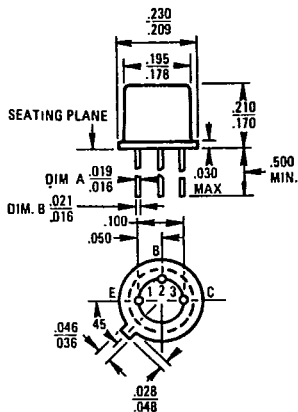
# MECHANICAL OUTLINE DRAWINGS

D

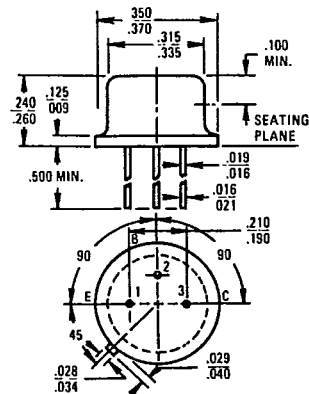
TO-5



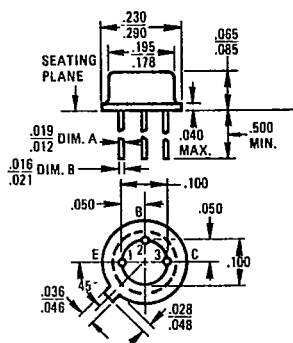
TO-18



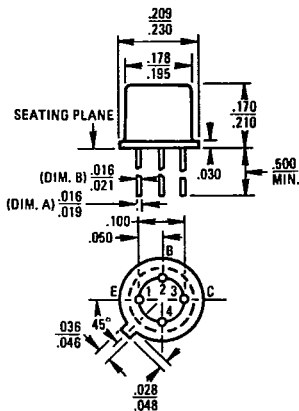
TO-39



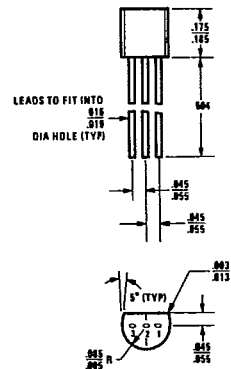
TO-46



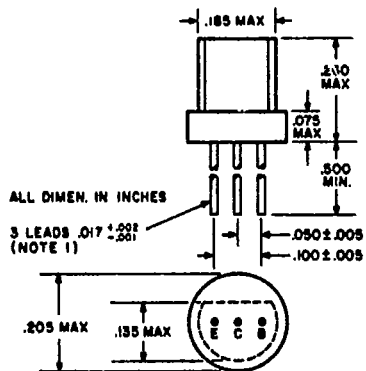
TO-72



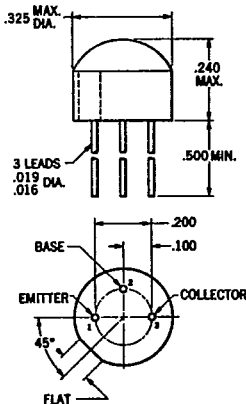
TO-92



TO-98



TO-105



TO-106

