

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

- Low Speed Switching

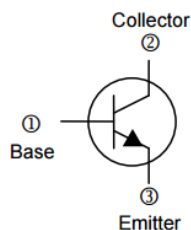
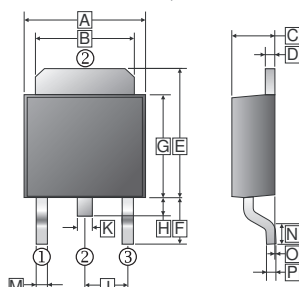
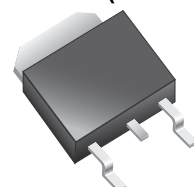
## PACKAGE INFORMATION

Package	MPQ	Leader Size
TO-252	2.5K	13 inch

## ORDER INFORMATION

Part Number	Type
CZD882M-Y	Lead (Pb)-free
CZD882M-Y-C	Lead (Pb)-free and Halogen-free

TO-252 (D-Pack)



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	6.3	6.9	J	2.3 REF.	
B	4.95	5.53	K	0.89 REF.	
C	2.1	2.5	M	0.45	1.14
D	0.4	0.9	N	1.55 Typ.	
E	6	7.7	O	0	0.15
F	2.90 REF.		P	0.58 REF.	
G	5.4	6.4			
H	0.6	1.2			

## ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V <sub>CBO</sub>	40	V
Collector to Emitter Voltage	V <sub>CEO</sub>	30	V
Emitter to Base Voltage	V <sub>EBO</sub>	6	V
Collector Current	I <sub>C</sub>	3	A
Total Power Dissipation	P <sub>C</sub>	1.25	W
Thermal Resistance, junction to Ambient	R <sub>θJA</sub>	100	°C / W
Junction and Storage Temperature	T <sub>J</sub> , T <sub>STG</sub>	150, -55 ~ 150	°C

## ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Collector-Base Breakdown Voltage	V <sub>(BR)CBO</sub>	40	-	-	V	I <sub>C</sub> =100μA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	V <sub>(BR)CEO</sub>	30	-	-	V	I <sub>C</sub> =10mA, I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	V <sub>(BR)EBO</sub>	6	-	-	V	I <sub>E</sub> =100μA, I <sub>C</sub> =0
Collector Cut-Off Current	I <sub>CBO</sub>	-	-	1	μA	V <sub>CB</sub> =40V, I <sub>E</sub> =0
Collector Cut-Off Current	I <sub>CEO</sub>	-	-	10		V <sub>CE</sub> =30V, I <sub>B</sub> =0
Emitter Cut-Off Current	I <sub>EBO</sub>	-	-	1	μA	V <sub>EB</sub> =6V, I <sub>C</sub> =0
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	-	-	0.5	V	I <sub>C</sub> =2A, I <sub>B</sub> =0.2A
Base-Emitter Saturation Voltage	V <sub>BE(sat)</sub>	-	-	1.5	V	I <sub>C</sub> =2A, I <sub>B</sub> =0.2A
DC Current Gain	h <sub>FE</sub>	160	-	320		V <sub>CE</sub> =2V, I <sub>C</sub> =1A
Transition Frequency	f <sub>T</sub>	-	90	-	MHz	V <sub>CE</sub> =5V, I <sub>C</sub> =0.1A, f=10MHz

**CHARACTERISTIC CURVES**

Static Characteristic

