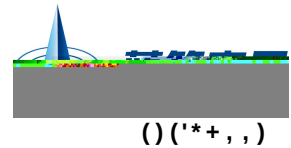


'-' . /01.2'3.4532' '

A	2022.4.21	ALL	AOS-AOD950A70		
B	2022.5.26	2,3,4,5	YC-RMX65R1K0SN_ReV1.2		



''.''.1430<=05:1'

TO-252 N 650V

N-CHANNEL 650V Super-Junction Power MOSFET in a TO-252 Plastic Package.

''.''.>.8=?3.1'

$R_{DS(on)}$ C_{rss}

Low $R_{DS(on)}$, low gate charge, low C_{rss} , fast switching, HF Product.

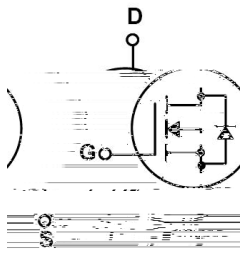
'

''.''.(<<0048=05:1''

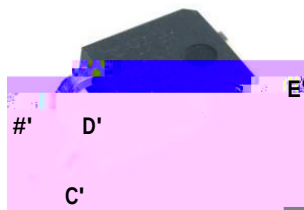
DC/DC

Suited for low voltage applications such as automotive, DC/DC Converters, and high efficiency switching for power management in portable and battery operated products.

''.'',A?0/80.:='&034?0='



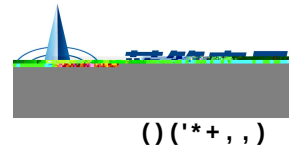
''.''.B0::0:;'



PIN1 G PIN 2 D PIN 3 S PIN 4 D

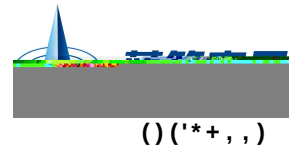
''.''.7 8390:;'

See Marking Instructions.



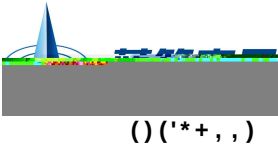
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DSS}	650	V
Drain Current	$I_D(T_c=25^{\circ}C)$	5	A
Drain Current - Pulsed	I_{DM}	20	A
Gate-Source Voltage	V_{GS}	± 30	V
Single Pulsed Avalanche Energy	E_{AS}	27	mJ
Avalanche Current	I_{AS}	2.5	A
Power Dissipation	$P_D(T_c=25^{\circ}C)$	56.5	W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to 150	$^{\circ}C$
Junction-to-Case	$R_{\theta JC}$	2.2	$^{\circ}C/W$
Junction-to-Ambient	$R_{\theta JA}$	55	$^{\circ}C/W$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	$V_{GS}=0V$ $I_D=250\mu A$	650	700		V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=650V$ $V_{GS}=0V$ $T_J=25^{\circ}C$			1.0	μA
Gate-Body Leakage Current, Forward	I_{GSS}	$V_{GS}=\pm 30V$			± 100	nA
Gate Threshold Voltage	$V_{GS(th)}$					

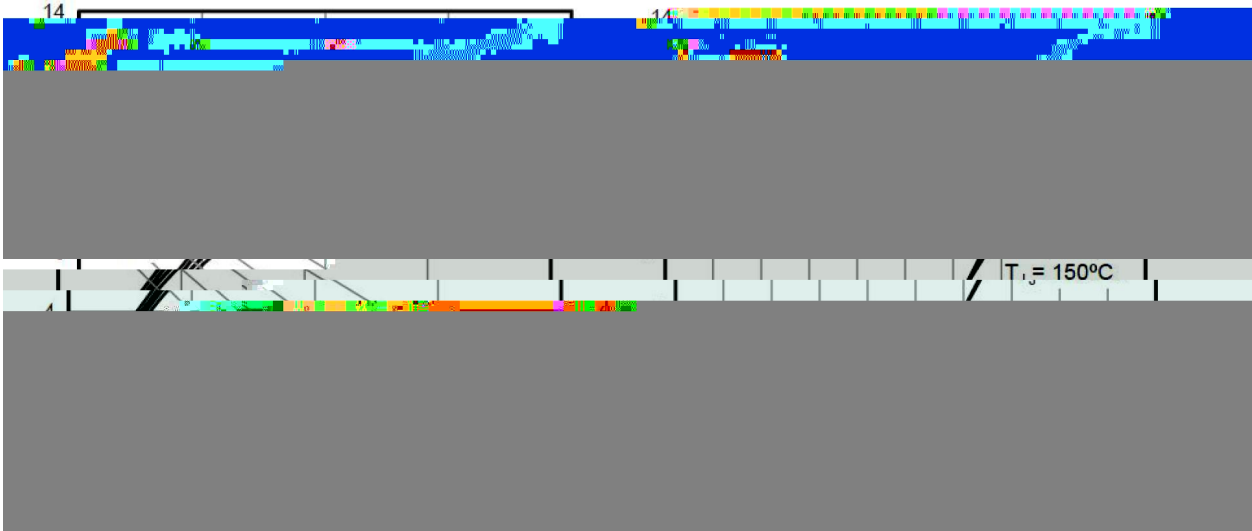
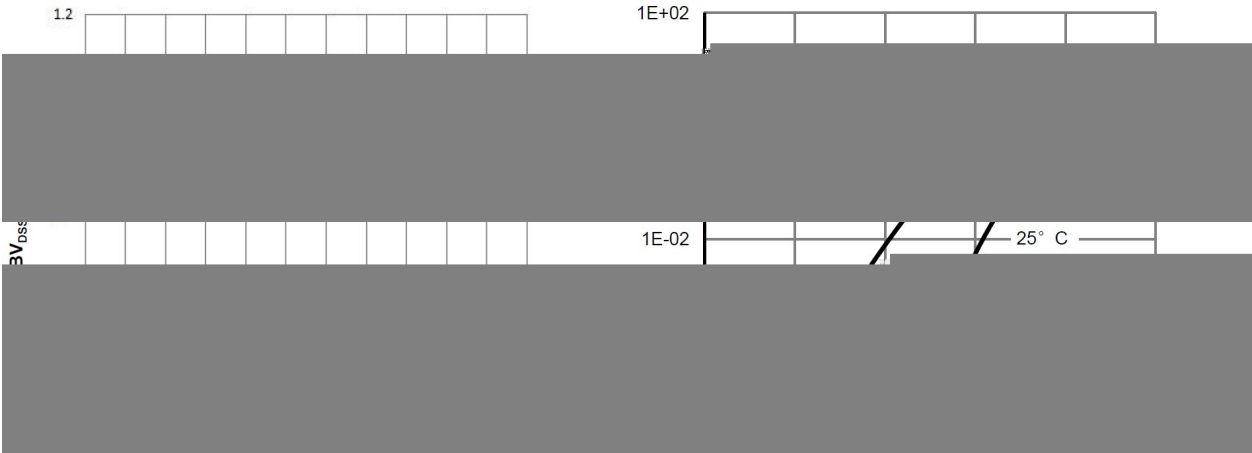


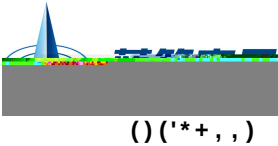
''.',@.4=30480'L8384=.301=0411)8JD" K'

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Continuous Diode Forward Current	I_S				5	A
Total Gate Charge	Q_g	$V_{DS}=520V \quad I_D=2A$ $V_{GS}=10V$		9.1		nC
Gate-Source Charge	Q_{gs}			2.1		nC
Gate-Drain Charge	Q_{gd}			4.0		nC
Reverse recovery time	T_{rr}	$V_R=50V, I_F=2A,$ $dI_F/dt=100A/\mu s$		159		ns
Reverse recovery charge	Q_{rr}			0.93		uC

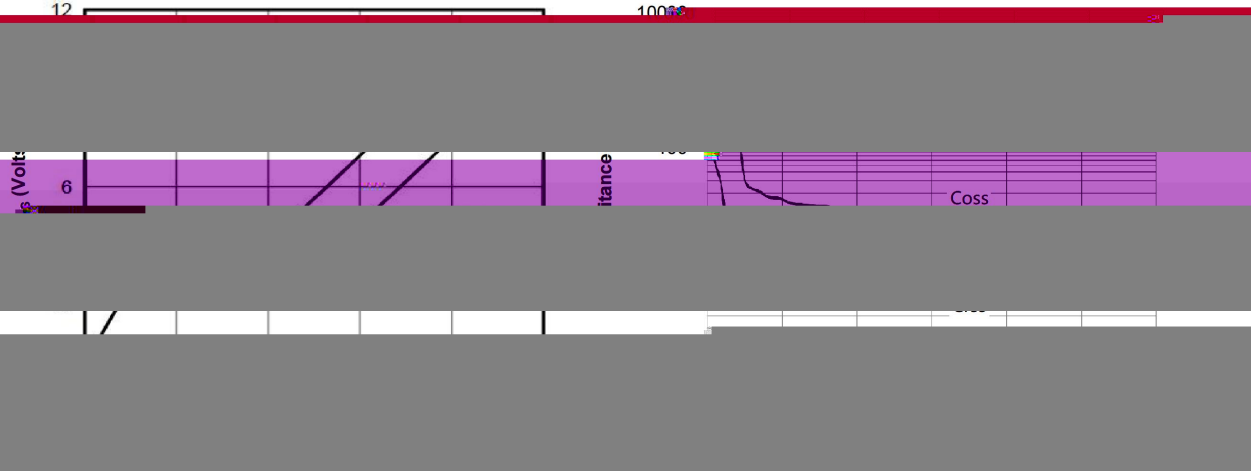
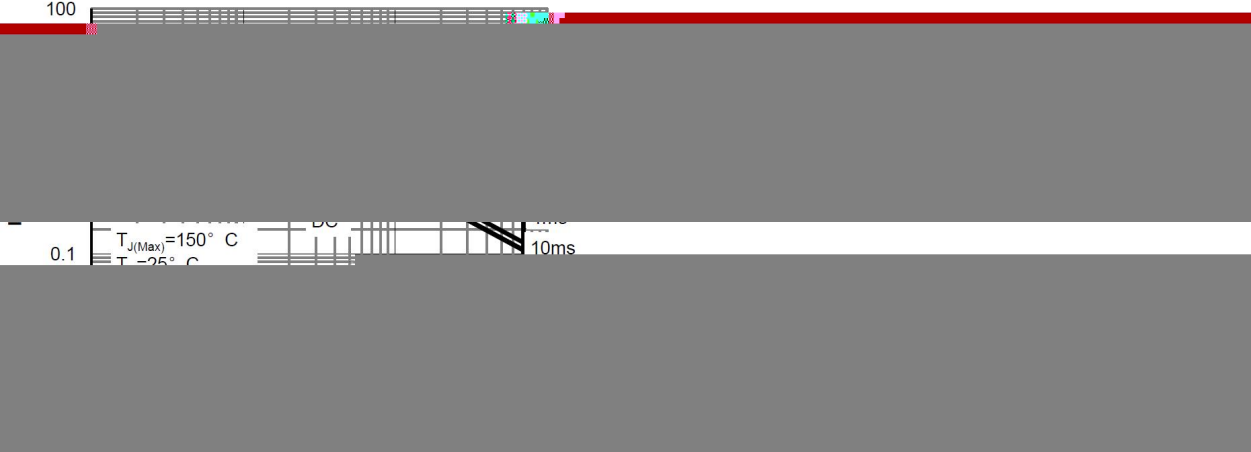
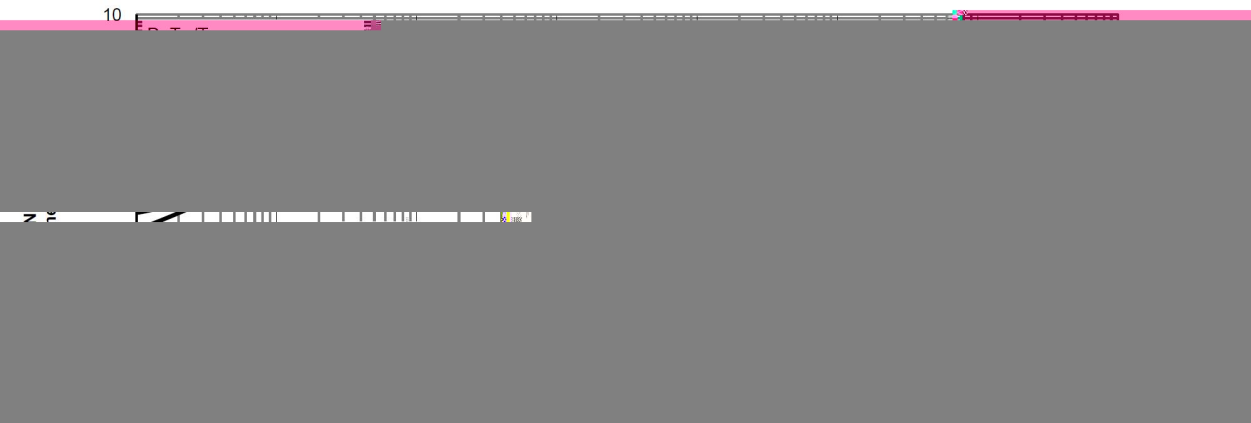


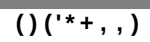
' ' . ' ' , @ . 4 = 3 0 4 8 0 ' & L 8 3 8 4 = . 3 0 1 = 0 4 ' & ? 3 / . '





' ' . ' ' , @ . 4 = 3 0 4 8 0 ' & L 8 3 8 4 = . 3 0 1 = 0 4 ' & ? 3 / . '



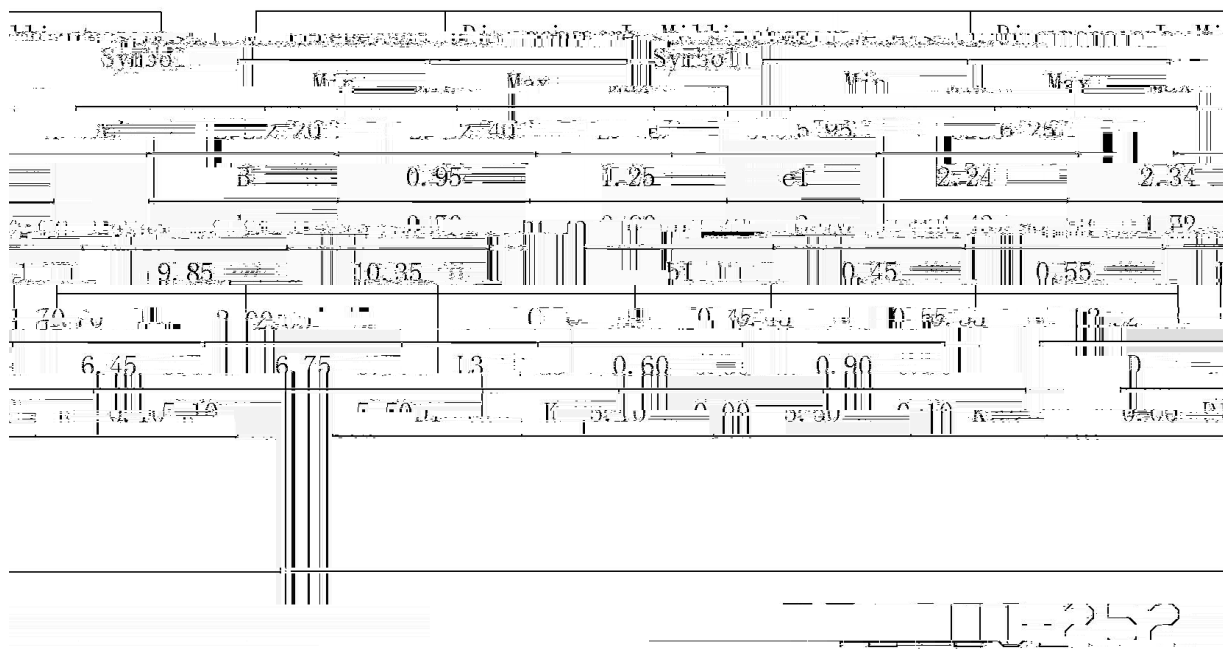


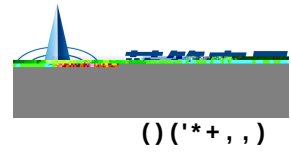
Rev.B May.-2022

Technical drawing of a mechanical assembly, likely a pump or motor component, showing a cross-section. The drawing includes various dimensions and labels:

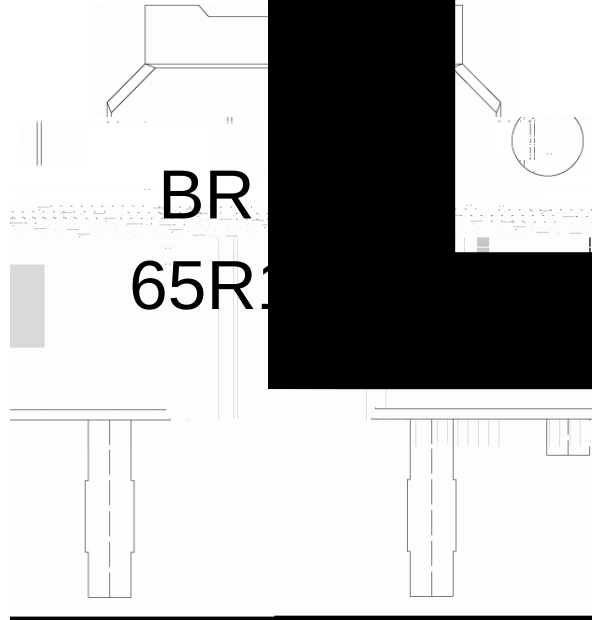
- Dimensions:**
 - a_1 : Horizontal distance from the left edge to the center of the main shaft.
 - b : Horizontal distance from the center of the main shaft to the center of the smaller shaft.
 - c : Horizontal distance from the center of the smaller shaft to the right edge.
 - e_1 : Horizontal distance from the left edge to the center of the main shaft (labeled as a_1 in the image).
 - e_2 : Horizontal distance from the center of the main shaft to the right edge.
 - L_1 : Vertical distance from the bottom edge to the center of the main shaft.
 - L_3 : Vertical distance from the bottom edge to the center of the smaller shaft.
- Labels:**
 - D**: Label for the main shaft.
 - E**: Label for the smaller shaft.
 - A**: Label for the top flange or housing.
 - B**: Label for the bottom flange or housing.
 - C**: Label for the central shaft assembly.
 - F**: Label for the rightmost component.
- Other Features:**
 - A circular feature with a cross-section line is shown on the right side.
 - A small rectangular component is located at the bottom center.
 - A vertical line with a cross-section line is shown on the left side.

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' '- ' 7 8390: ; 'N: 1=3?4=05: 1'



BR
65R1K0C

Note:

BR: Company Code

65R1K0C: Product Type Code

****: Lot No. Code, code change with Lot No

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- 1
- 2
- 3

 260 ± 5

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/ R

Package Type