'-'' ./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.

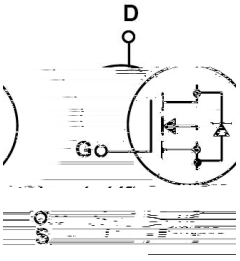
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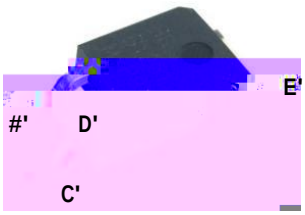
DC/DC

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

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''-''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(Tc=25℃)	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(Tc=25℃)	56.5	W
Operating and Storage Temperature Range	T_J,T_{STG}	-55 to 150	℃
Junction-to-Case	$R_{\theta JC}$	2.2	℃/W
Junction-to-Ambient	$R_{\theta JA}$	55	℃/W

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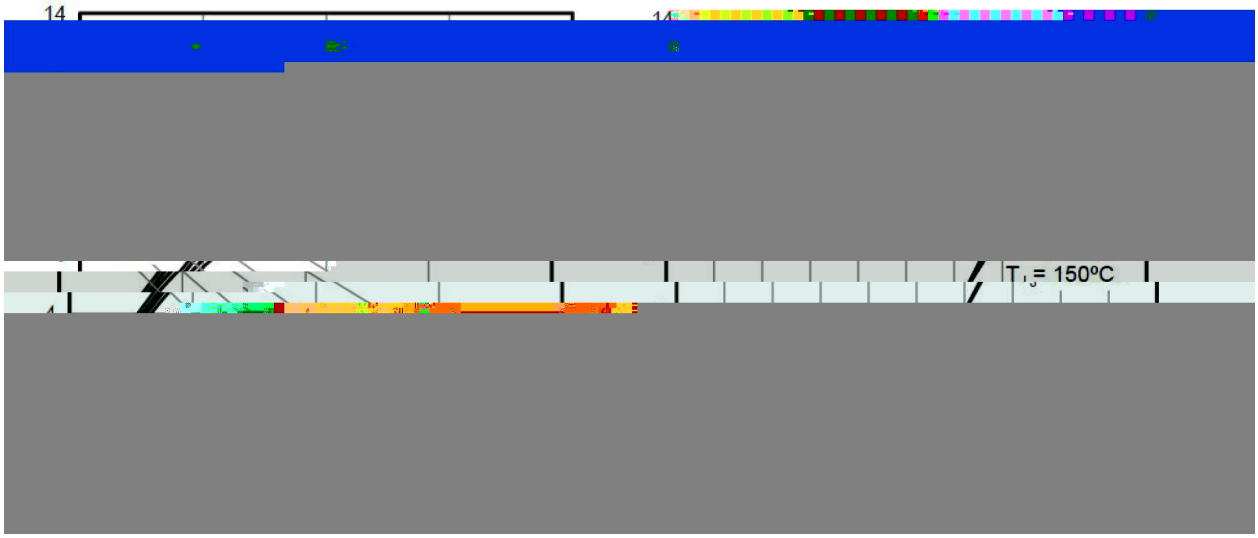
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Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	V_{GS}=0V I_D=250μA	650	700		V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=650V V_{GS}=0V T_J=25℃			1.0	μA
Gate-Body Leakage Current, Forward	I_{GSS}	V_{GS}=±30V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

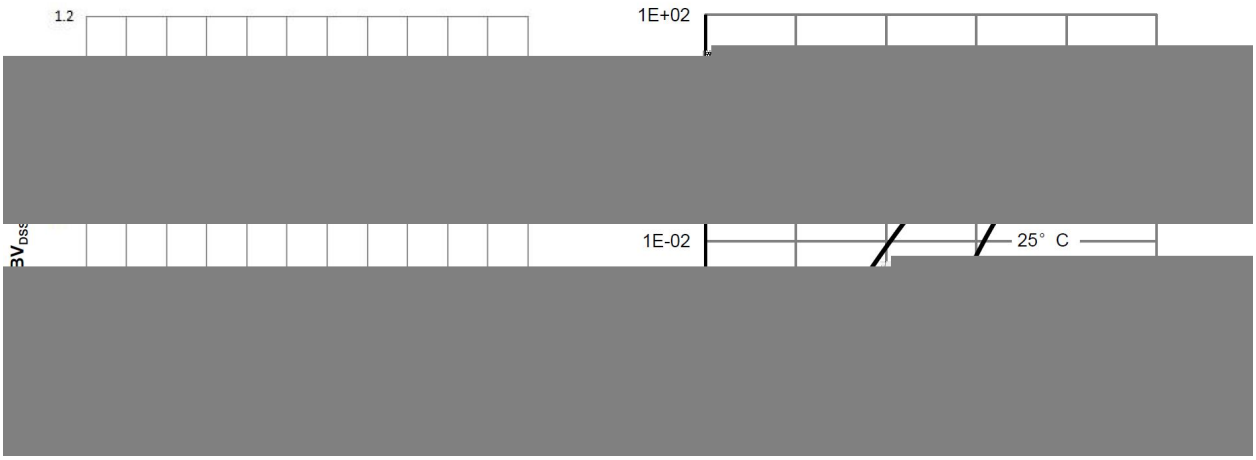
''-'',@.4=3048@'&L8384=.301=041I)8JD" K'

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Continuous Diode Forward Current	I_S				5	A
Total Gate Charge	Q_g	V_{DS}=520V 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=50 V, I_F=2A, dI_F/dt=100 A/μs		159		ns
Reverse recovery charge	Q_{rr}			0.93		uC

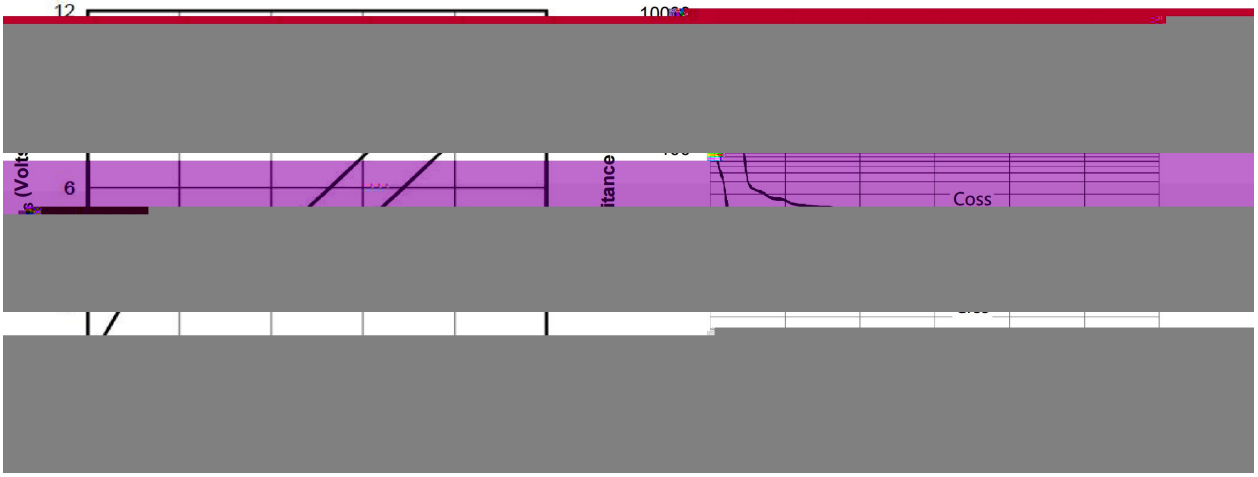
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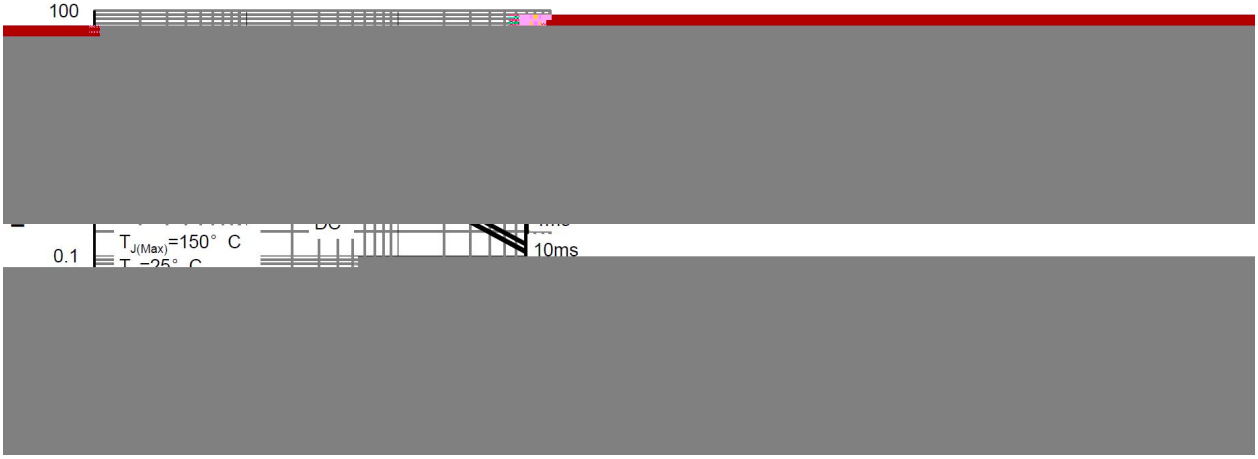


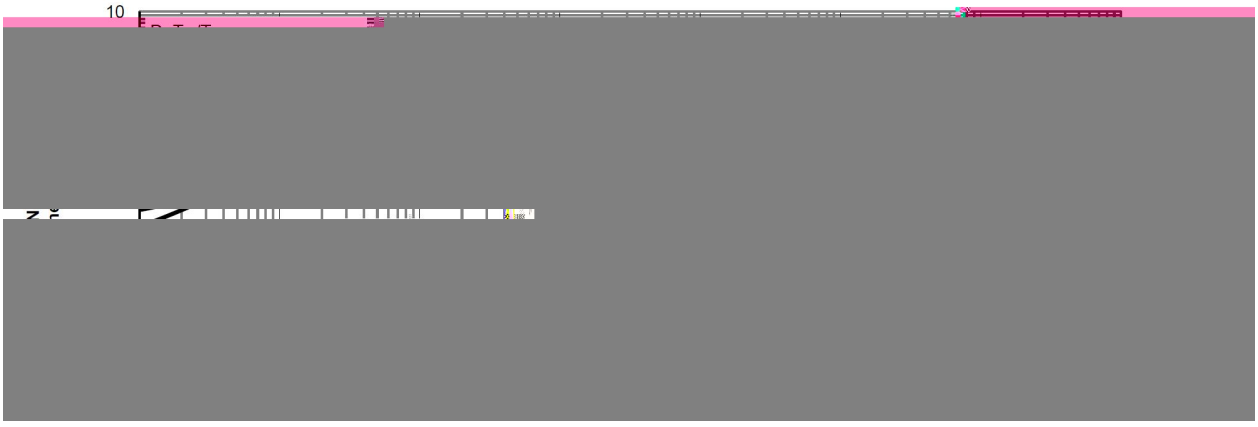




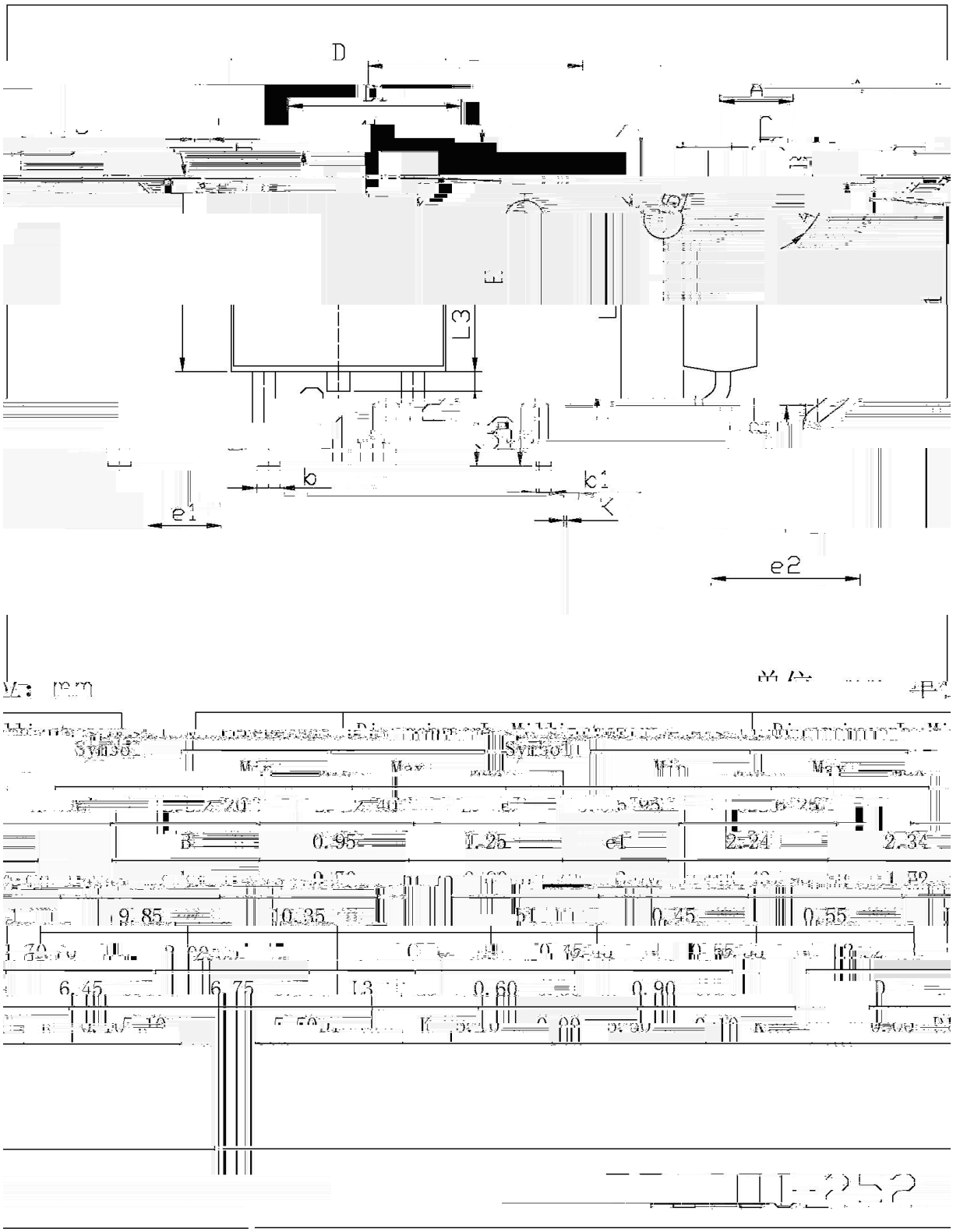
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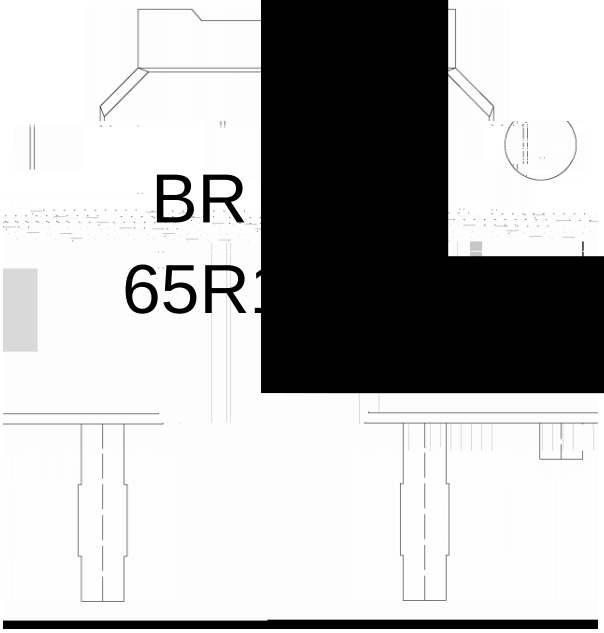




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BR

65R1K0C

****

Note:

BR:	Company Code
65R1K0C:	Product Type Code
****:	Lot No. Code, code change with Lot No

Temperature Profile for IR Reflow Soldering(Pb-Fr

1

2

3

260±

/ R

Package Type					