DFN3×2-6L N

Common-Drain Dual N-Channel Enhancement MOSFET in a DFN3×2-6L Plastic Package.

$V_{DS(V)}$=20V I_D=10A

$R_{DS(ON)}$@4.5V≤9.0mΩ(Typ.7.8mR)

$R_{DS(ON)}$@3.8V≤9.7mΩ(Typ.8.2mR)

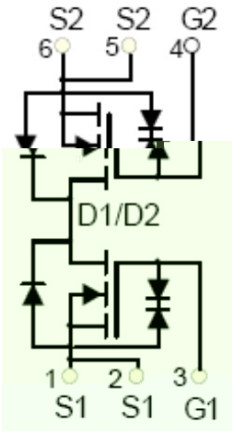
$R_{DS(ON)}$@2.5V≤12.5mΩ(Typ.9.5mR)

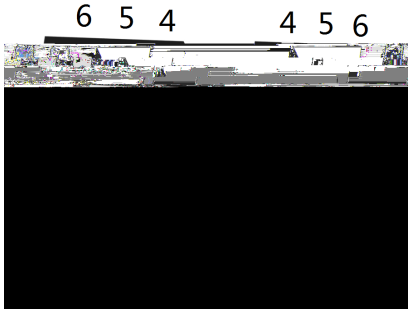
2KV

ESD protected up to 2KV,HF Product.

POL

Handheld Instruments,POL Applications,Battery Protection Applications.





See Marking Instructions.

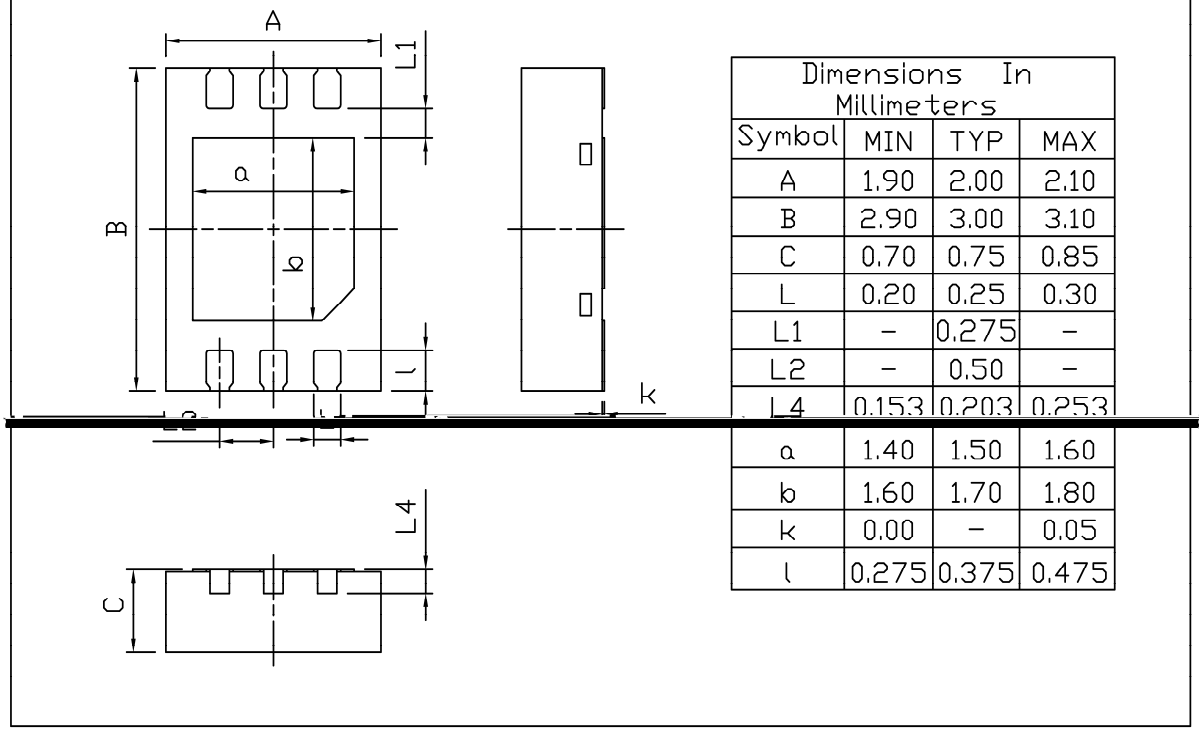
Parameter		Symbol	Rating	Unit
Drain-Source Voltage		V_{DSS}	20	V
Drain Current		I_D	10	A
Drain Current - Pulsed		I_{DM}	52	A
Gate-Source Voltage		V_{GSS}	±10	V
Power Dissipation		P_D	1.5	W
Operating and Storage Temperature Range		T_J,T_{stg}	-55 to 150	
Junction-to-Ambient	Steady-State	$R_{\theta JA}$	83.3	/W

Parameter	Symbol	Test Conditions		Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	V_{GS}=0V	I_D=250μA	20	21		V
Zero Gate Voltage Drain Current	I_{DSS}	V_{DS}=20V	V_{GS}=0V			1.0	μA
Gate-Body leakage current	I_{GSS}	V_{GS}=±10V	V_{DS}=0V			± 10	μA
Gate Threshold Voltage	$V_{GS(th)}$	V_{DS}=V_{GS}	I_D=250μA	0.5	0.7	1.0	V
Static Drain-Source On-Resistance	$R_{DS(on)}$	V_{GS}=4.5V	I_D=3A		7.8	9.0	mΩ
		V_{GS}=4.0V	I_D=3A		8.0	9.3	mΩ
		V_{GS}=3.8V	I_D=3A		8.2	9.7	mΩ
		V_{GS}=3.1V	I_D=3A		8.5	10.5	mΩ
		V_{GS}=2.5V	I_D=3A		9.5	12.5	mΩ
Diode Forward Voltage	V_{SD}	V_{GS}=0V	I_S=1.0A			1.2	V
Input Capacitance	C_{iss}	V_{DS}=10V f=1.0MHz	V_{GS}=0V		1900		pF
Output Capacitance	C_{oss}				255		pF
Reverse Transfer Capacitance	C_{rss}				200		pF
Total Gate Charge	Q_g	V_{GS}=4.5V I_D=10A	V_{DS}=15V		17.9		nC
Gate-Source Charge	Q_{gs}				1.5		nC
Gate-Drain Charge	Q_{gd}				4.7		nC
Turn-On Delay Time	$t_{d(on)}$	V_{DS}=10V R_L=1.35Ω	V_{GS}=5.0V R_{GEN}=3Ω		2.2		ns
Turn-On Rise Time	t_r				5.9		ns
Turn-Off Delay Time	$t_{d(off)}$				40		ns
Turn-Off Fall Time	t_f				90		ns

ATA SHEET w.fsbrec.com

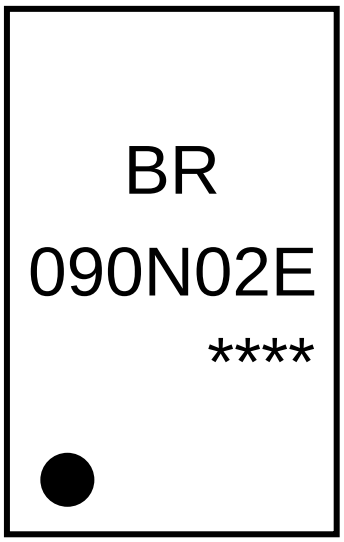
Rr9A57Tr9A2.2(.r9A0.1(Ar9A2.4(r9A0.1(Mr9A1.7(ar9A57rr9A1.9(.r9A0.1(-r9A1.9(2r9A570)

DFN3X2-6L Unit:mm



Dimensions In Millimeters			
Symbol	MIN	TYP	MAX
A	1.90	2.00	2.10
B	2.90	3.00	3.10
C	0.70	0.75	0.85
L	0.20	0.25	0.30
L1	-	0.275	-
L2	-	0.50	-
L4	0.153	0.203	0.253
a	1.40	1.50	1.60
b	1.60	1.70	1.80
k	0.00	-	0.05
l	0.275	0.375	0.475

Rev.00 202311



BR

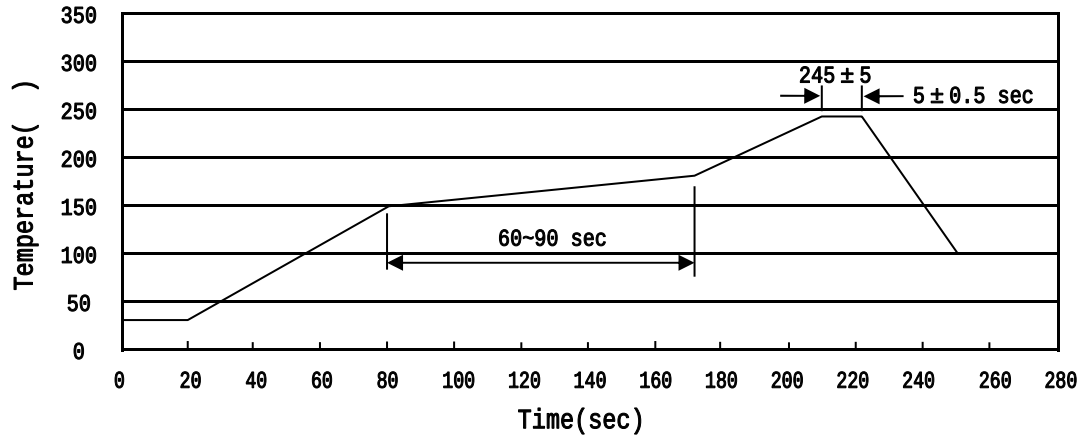
090N02E

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Note:

BR:	Company Code
090N02E:	Product Type Code
****:	Lot No. Code, code change with Lot No

Temperature Profile for IR Reflow Soldering(Pb-Free)



			Note:
1	150 180	60 90sec;	1.Preheating:150~180 , Time:60~90sec.
2	245±5	5±0.5sec;	2.Peak Temp.:245±5 , Duration:5±0.5sec.
3	2 10 /sec.		3. Cooling Speed: 2~10 /sec.

260±5	10±1 sec.	Temp.:260±5	Time:10±1 sec

/ REEL

Package Type	Units					Dimension		(unit mm³)
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
DFN3×2-6L	3,000	10	30,000	4	120,000	7 ×8	210×205×205	445×435×230