

Value	Unit
60	V
3.0	V
55	A
4.5	mΩ

Marking	MSL	Form	Reel(pcs)	Per Carton (pcs)
SH0606P	1	Tape&Reel	5000	50000

Absolute Maximum Ratings (@ $T_C = 25^\circ\text{C}$ unless otherwise specified)

Symbol	Parameter	Value	Unit
V_{DS}	Drain-to-S	60	V
V_{GS}		3.0	V
I_D	Continuous Drain Current	$T_C = 25^\circ\text{C}$ $T_C = 100^\circ\text{C}$	A
I_{DM}	Pulsed Drain Current ⁽¹⁾	Refer to Fig.4	A
E_{AS}	Single Pulsed Avalanche Energy ⁽²⁾	165	mJ
P_D	Power Dissipation	$T_C = 25^\circ\text{C}$ $T_C = 100^\circ\text{C}$	W
T_J, T_{STG}	Junction & Storage Temperature Range	-55 to 150	$^\circ\text{C}$

Thermal Characteristics

Symbol	Unit
R	
R	

Electrical Characteristics ($T_J = 25^\circ\text{C}$ unless otherwise specified)

Symbol	Conditions	Min.	Typ.	Max.	Unit
Off Characteristics					
$V_{(BR)DSS}$		60	-	-	V
I_{DSS}		-	-	1.0	μA
I_{GSS}		-	-	± 100	nA
$V_{GS(th)}$		2.1	3.0	3.9	V
$R_{DS(ON)}$		-	4.5	5.9	m Ω
R_g		-	2.2	-	Ω
C_{iss}		1077	1794	2692	pF
C_{oss}		488	814	1221	pF
C_{rss}		29	49	97	pF
Q_g		17	29	43	nC
Q_{gs}		-	10	-	nC
Q_{gd}		-	7.5	-	nC
$t_{d(on)}$		-	11.6	-	ns
t_r					



Typical Performance Characteristics

Figure 1: Power De-rating

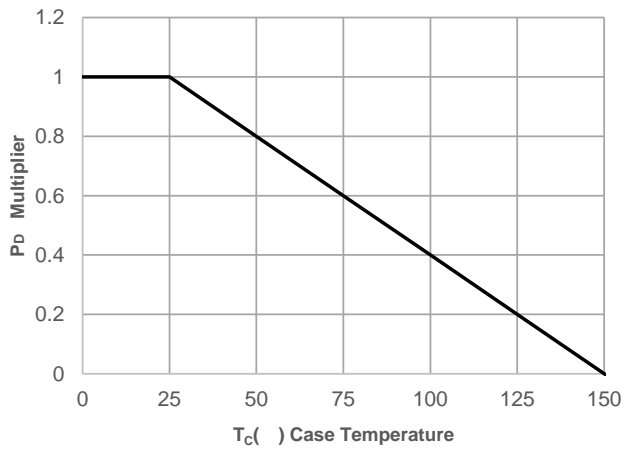
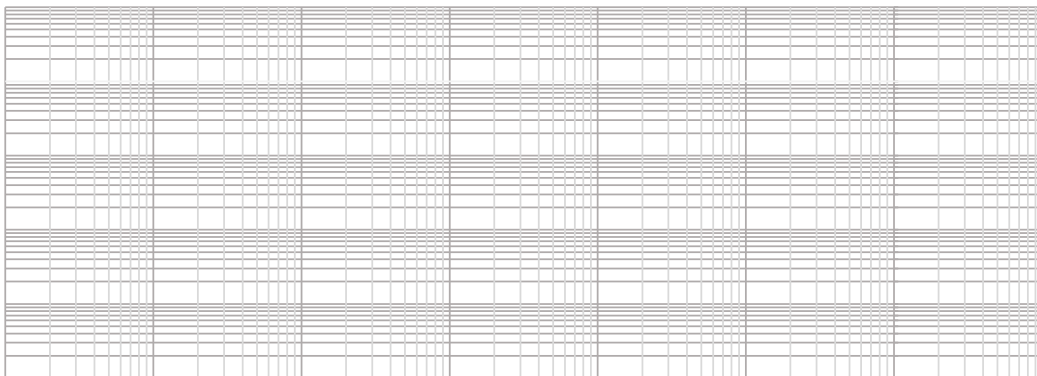
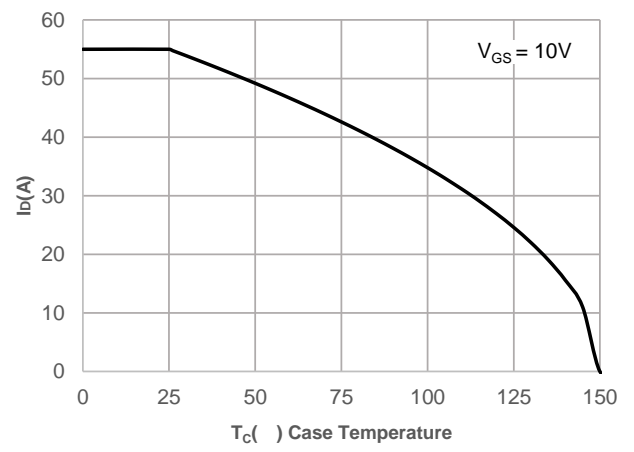


Figure 2: Current De-rating

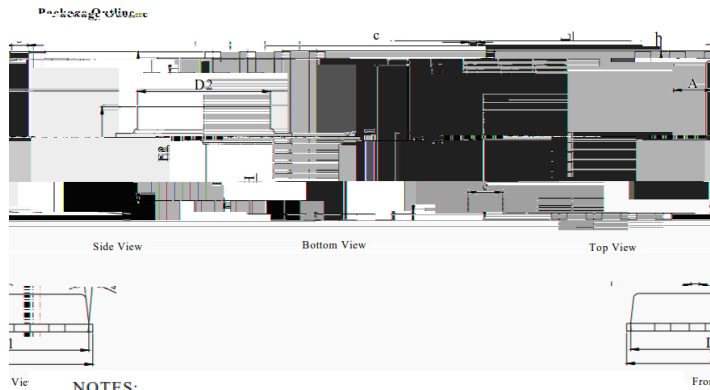


Test Circuit

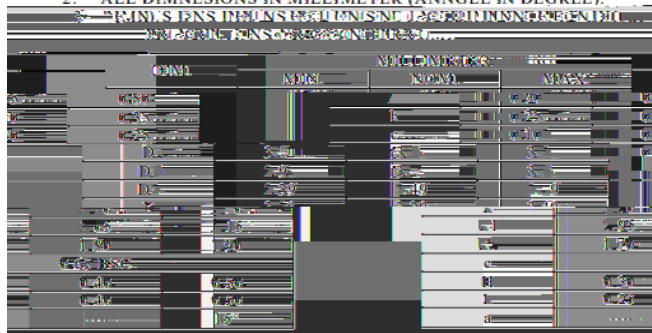
Figure 1: Gate Charge Test Circuit & Waveform



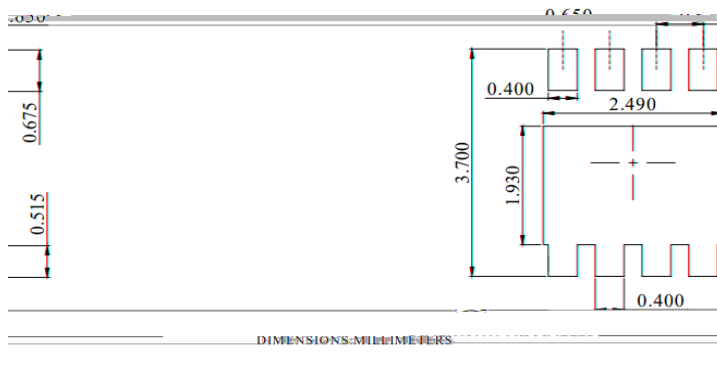
Package Mechanical Data(PDFN3x3-8L)



- NOTES:
1. DIMENSIONING AND TOLERANCING PER ASME Y 14.5M,1994.
 2. ALL DIMENSIONS IN MILLIMETER (ANGLE IN DEGREE).



Recommended Soldering Footprint



Information furnished in this document is believed to be accurate and reliable. However, Jiangsu JieJie Microelectronics Co.,Ltd assumes no responsibility for the consequences of use without consideration for such information nor use beyond it. Information mentioned in this document is subject to change without notice, apart from that when an agreement is signed, Jiangsu JieJie complies with the agreement. Products and information provided in this document have no infringement of patents. Jiangsu JieJie assumes no responsibility for any infringement of other rights of third parties which may result from the use of such products and information.

 is a registered trademark of Jiangsu JieJie Microelectronics Co.,Ltd.

