



	Value	Unit
	-30	V
	-1.7	V
	-11	A
	12	mΩ
	16	mΩ

	Marking	MSL	Form		Reel(pcs)	Per Carton (pcs)
JMTP160P03D	160P03D	3	Tape&Reel	SOP-8	4000	48000

Symbol				Unit
V _{DS}	Drain-to-Source Voltage		-30	V
V _{GS}	Gate-to-Source Voltage		±20	V
I _D	Continuous Drain Current	T _A = 25°C	-11	A
		T _A = 100°C	-7	A
I _{DM}	Pulsed Drain Current ⁽¹⁾		Refer to Fig.4	A
E _{AS}				mJ
P _D	Power Dissipation	T _A = 25°C	2.8	W
		T _A = 100°C	1.1	W
T _J , T _{STG}	Junction & Storage Temperature Range		-55 to 150	°C

Thermal Characteristics

Symbol	Parameter	Max	Unit
R - _s	Thermal Resistance, Junction to Ambient ⁽³⁾	112	°C/W
R - _s	Thermal Resistance, Junction to Ambient ⁽⁴⁾	45	

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

Symbol	Min.	Typ.	Max.	Unit
Off Characteristics				
$V_{(BR)DSS}$	-30	-	-	V
I_{DSS}	-	-	-1.0	μA
I_{GSS}	-	-	± 100	nA
<hr/>				
$V_{GS(th)}$	-1.2	-1.7	-2.2	V
	-	12	17	$\text{m}\Omega$
	-	16	27	$\text{m}\Omega$
<hr/>				
R_g	-	7	-	Ω
C_{iss}	1763	2468	3331	pF
C_{oss}	184	258	348	pF
C_{riss}	164	230	310	pF
Q_g	33	46	62	nC
Q_{gs}	-	8.2	-	nC
Q_{gd}	-	-	-	nC
<hr/>				
<hr/>				



Typical Performance Characteristics

Figure 1: Power De-rating

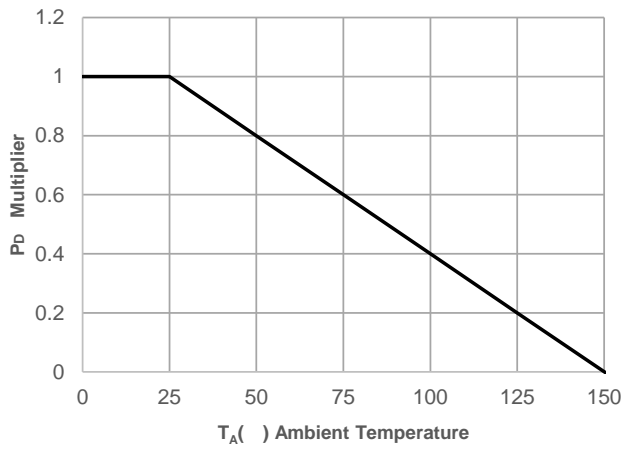
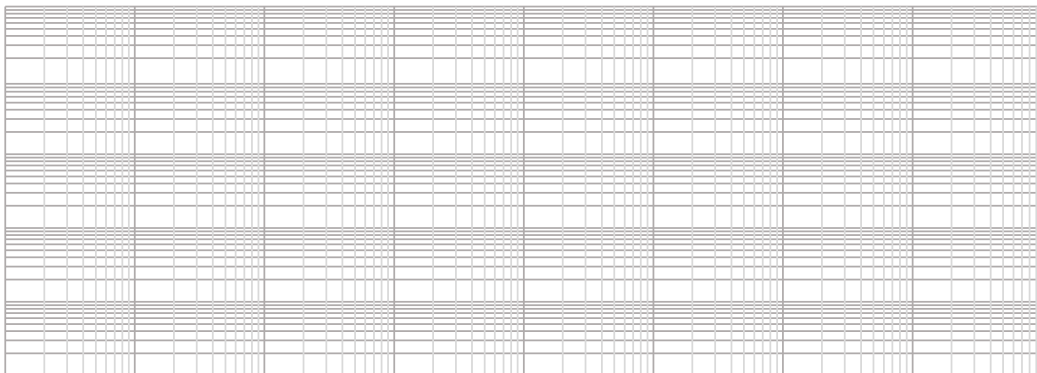
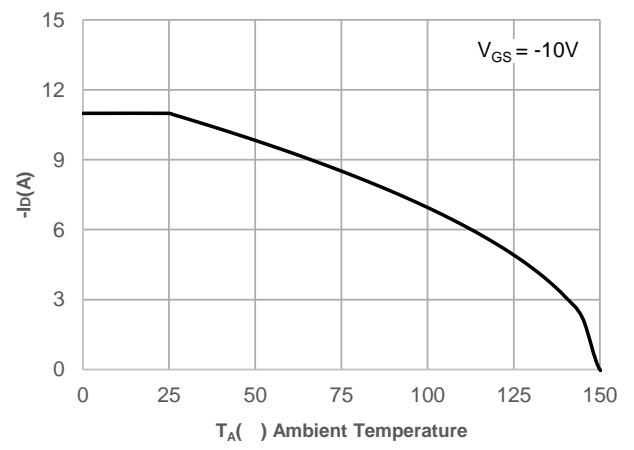
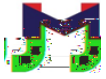


Figure 2: Current De-rating





Typical Performance Characteristics

Figure 5: Output Characteristics

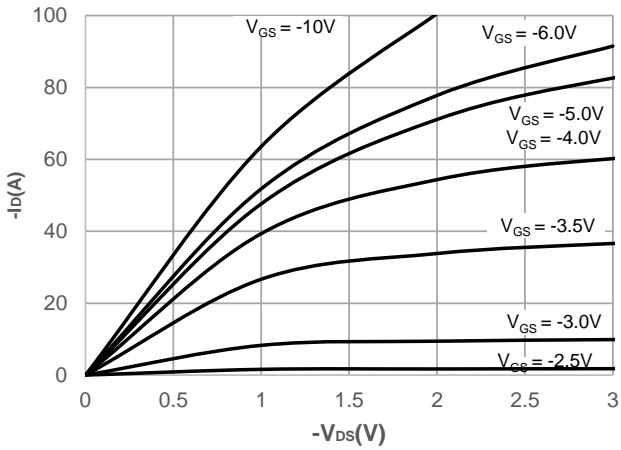


Figure 6: Typical Transfer Characteristics

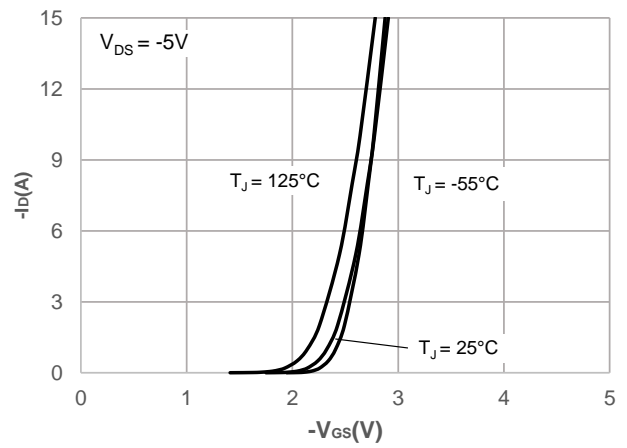


Figure 7: On-resistance vs. Drain Current

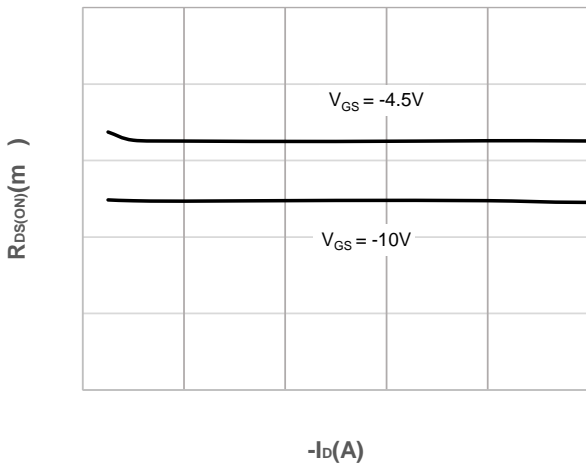


Figure 8: Body Diode Characteristics

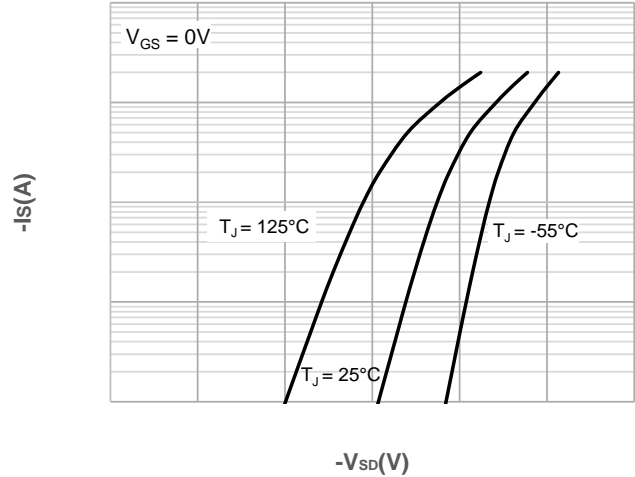


Figure 9: Gate Charge Characteristics

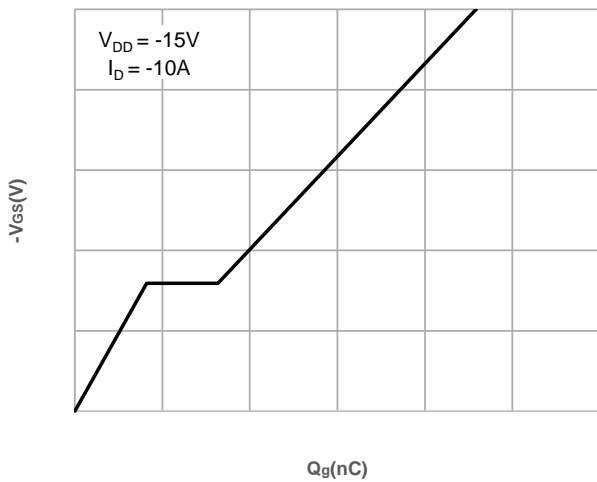
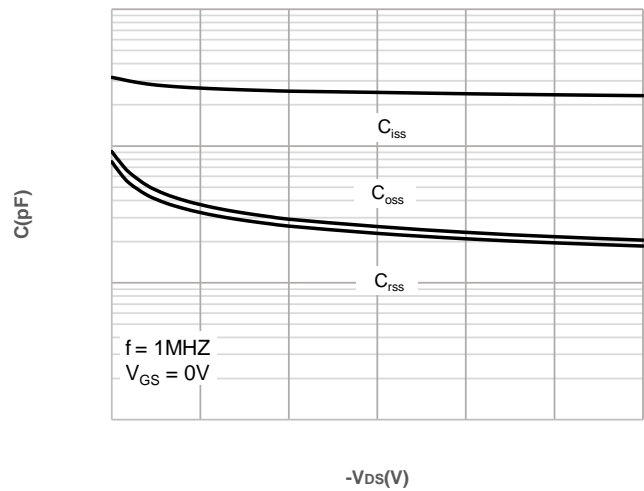


Figure 10: Capacitance Characteristics



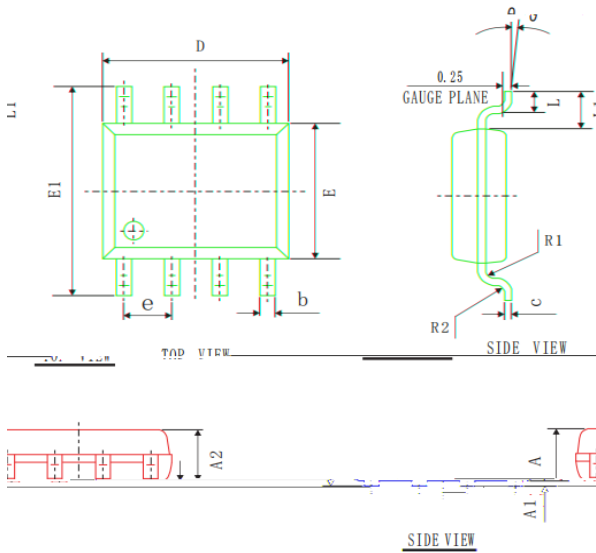
Typical Performance Characteristics

Test Circuit

Figure 1:P0D

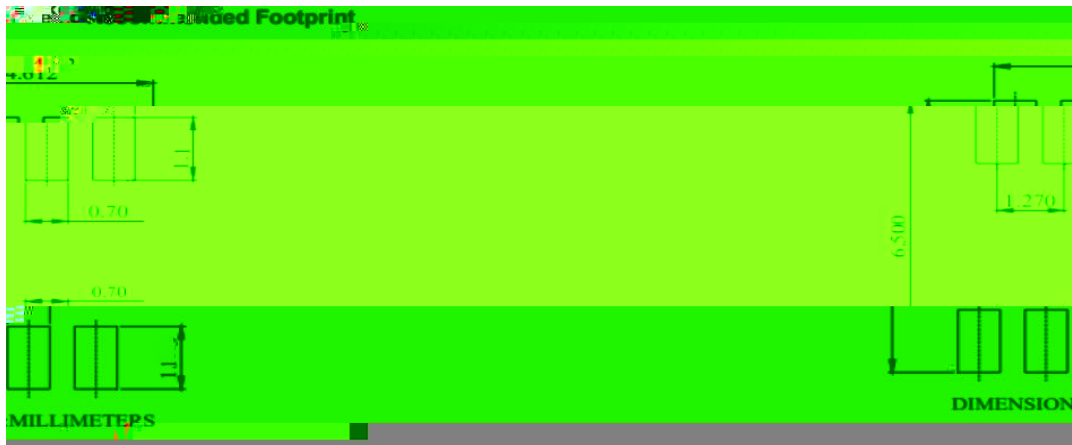


Package Mechanical Data(SOP-8L)



COMMON DIMENSIONS
(UNITS: OF DIMENSIONS=mm)

SYMBOL	MIN	NOM	MAX
A	1.40	1.60	1.80
A1	0.05	0.15	0.25
A2	1.35	1.45	1.55
b	0.30	0.40	0.50
C	0.153	0.203	0.253
D	4.80	4.90	5.00
E	1.30	1.30	1.30
E1	5.80	5.80	6.00
L	1.00	1.00	1.00
6	0	0	28
4 REF			1.0



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