



	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 <sub>DS</sub>	Drain-to-Source Voltage		-30	V
V <sub>GS</sub>	Gate-to-Source Voltage		±20	V
I <sub>D</sub>	Continuous Drain Current	T <sub>A</sub> = 25°C	-11	A
		T <sub>A</sub> = 100°C	-7	A
I <sub>DM</sub>	Pulsed Drain Current <sup>(1)</sup>		Refer to Fig.4	A
E <sub>AS</sub>				mJ
P <sub>D</sub>	Power Dissipation	T <sub>A</sub> = 25°C	2.8	W
		T <sub>A</sub> = 100°C	1.1	W
T <sub>J</sub> , T <sub>STG</sub>	Junction & Storage Temperature Range		-55 to 150	°C

### Thermal Characteristics

Symbol	Parameter	Max	Unit
R - <sub>s</sub>	Thermal Resistance, Junction to Ambient <sup>(3)</sup>	112	°C/W
R - <sub>s</sub>	Thermal Resistance, Junction to Ambient <sup>(4)</sup>	45	

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

Symbol	Min.	Typ.	Max.	Unit
<b>Off Characteristics</b>				
$V_{(BR)DSS}$	-30	-	-	V
$I_{DSS}$	-	-	-1.0	$\mu\text{A}$
$I_{GSS}$	-	-	$\pm 100$	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	-	$\Omega$
$C_{iss}$	1763	2468	3331	pF
$C_{oss}$	184	258	348	pF
$C_{rss}$	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

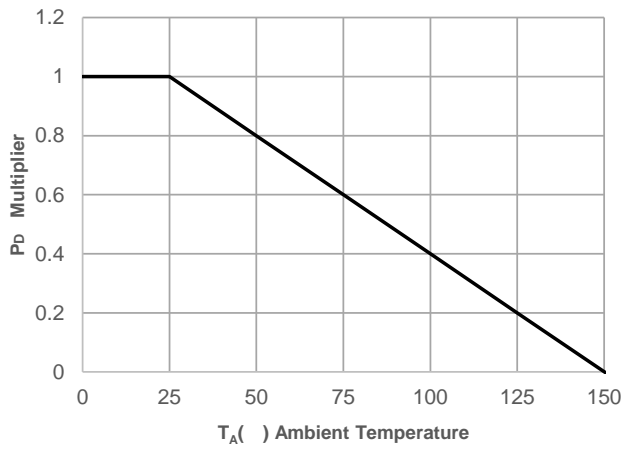
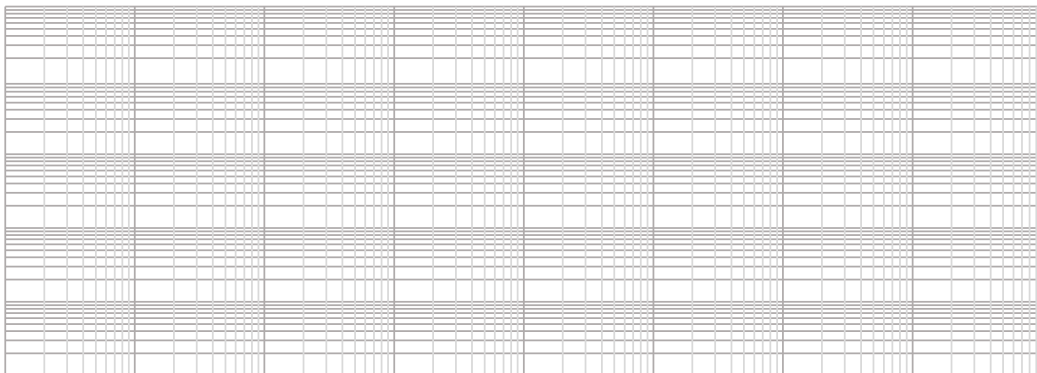
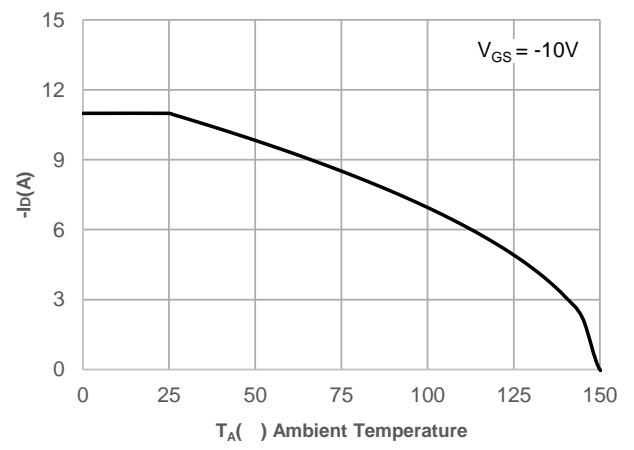
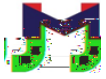


Figure 2: Current De-rating





# Typical Performance Characteristics

Figure 5: Output Characteristics

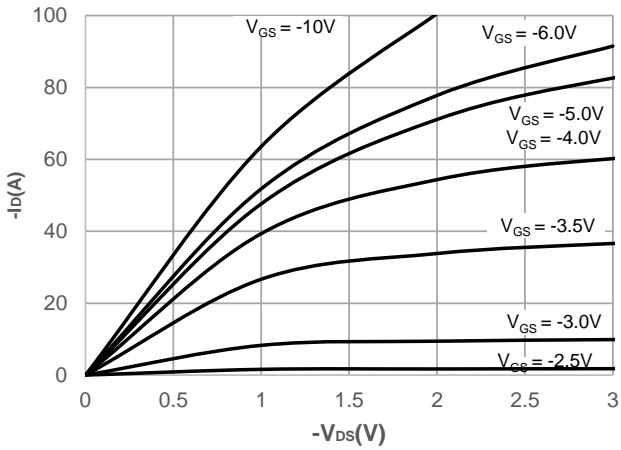


Figure 6: Typical Transfer Characteristics

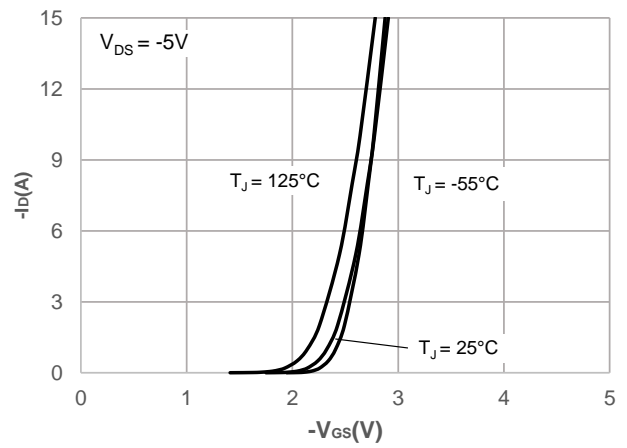


Figure 7: On-resistance vs. Drain Current

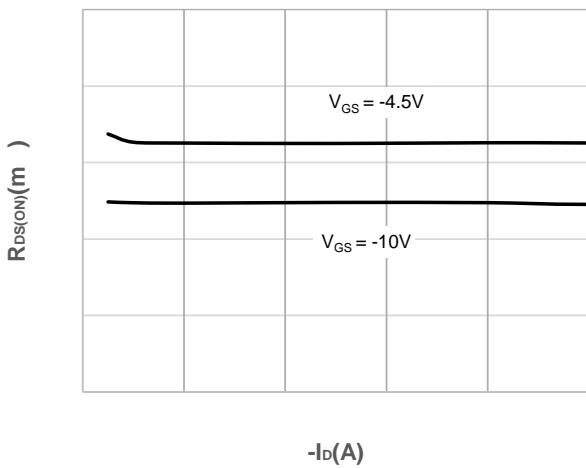


Figure 8: Body Diode Characteristics

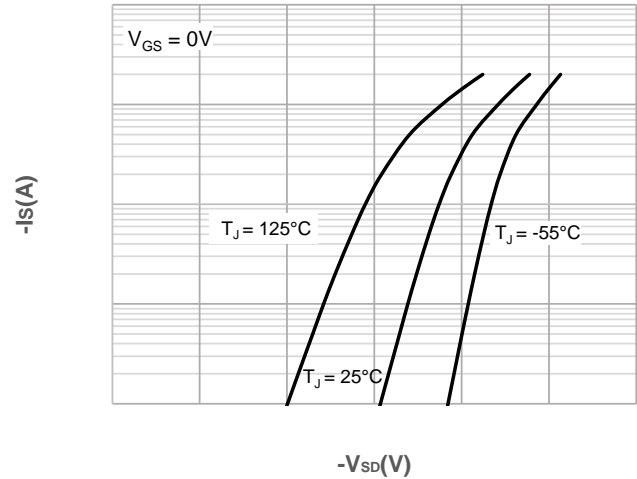


Figure 9: Gate Charge Characteristics

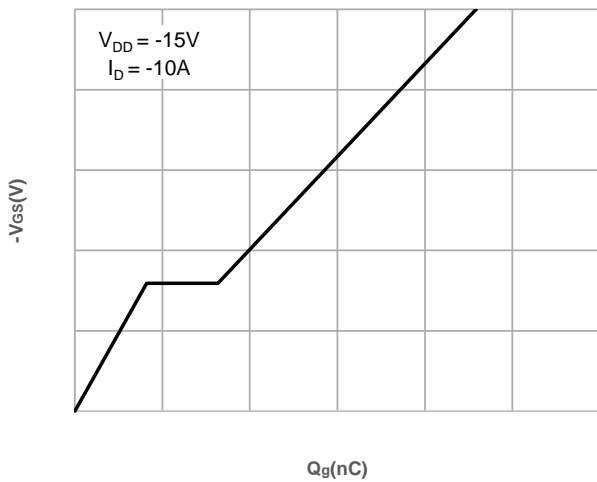
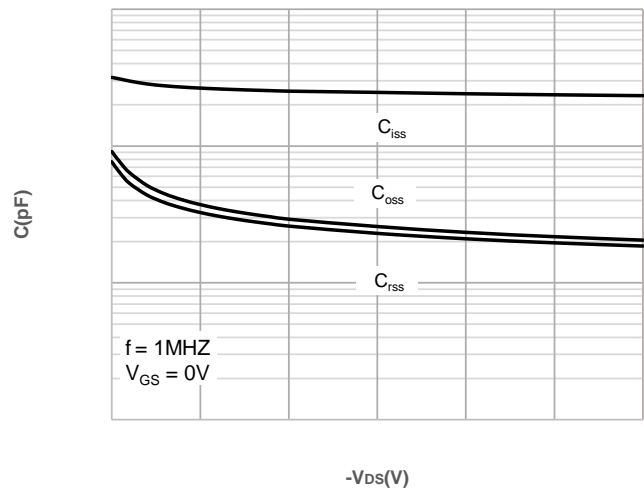


Figure 10: Capacitance Characteristics



## Typical Performance Characteristics

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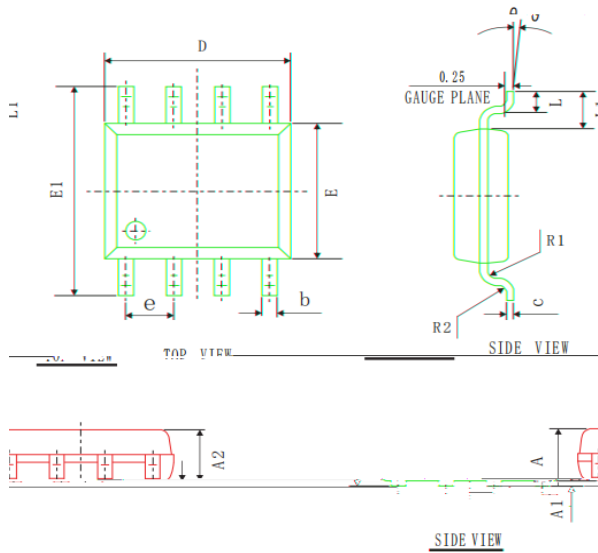
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## Test Circuit

Figure 1:P0D

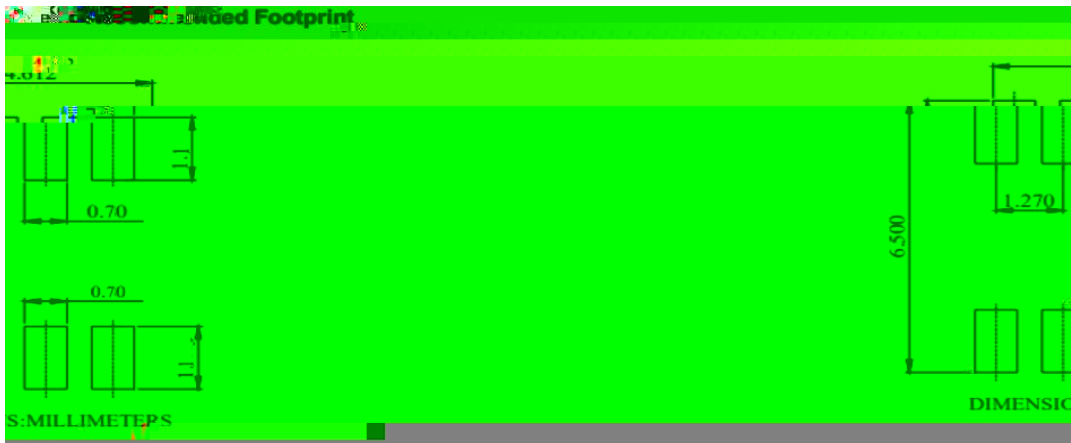


### Package Mechanical Data(SOP-8L)



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



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