



	<b>Value</b>	<b>Unit</b>
	150	V
	3.3	V
	14	A
	51	mΩ

<b>Marking</b>	<b>MSL</b>	<b>Form</b>	<b>Reel(pcs)</b>	<b>Per Carton (pcs)</b>
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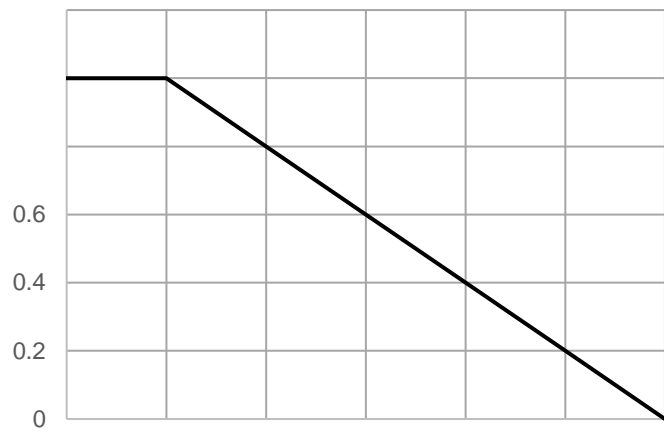
SH1552P



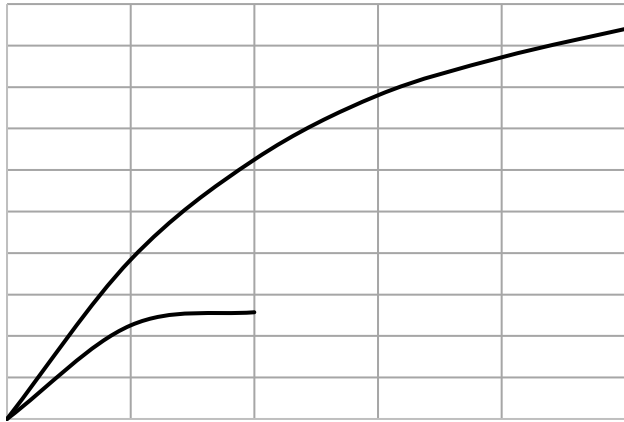
**Electrical Characteristics** ( $T_J = 25^\circ\text{C}$  unless otherwise specified)

Symbol	Conditions	Min.	Typ.	Max.	Unit
<b>Off Characteristics</b>					
$V_{(BR)DSS}$		150	-	-	V
$I_{DSS}$		-	-	1.0	$\mu$
$I_{GSS}$		-	-	$\pm 100$	
$V_{GS(th)}$		2.3	3.3	4.3	V
$R_{DS(ON)}$		-	51	67	m $\Omega$
$R_g$		-	1.1	-	$\Omega$
$C_{iss}$		538	753	1016	pF
$C_{oss}$		55	77	104	pF
$C_{rss}$		-	12	-	pF
$Q_g$		-	11	17	nC
$Q_{gs}$		-	5	-	nC
$Q_{gd}$		-	2.4	-	nC
$t_{d(on)}$		-	8	-	ns
$t_r$		-	14	-	ns
$t_{d(off)}$		-	11	-	ns
$t_f$		-	2.8	-	ns
$I_s$		-	-	-	

## Typical Performance Characteristics

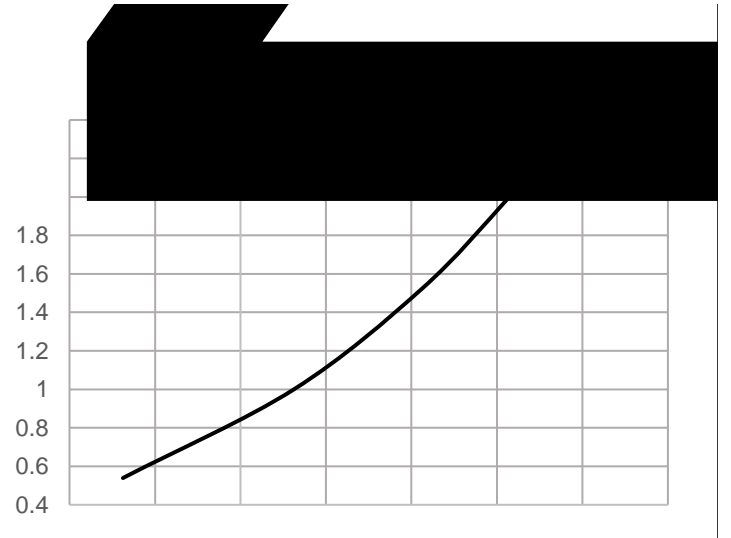
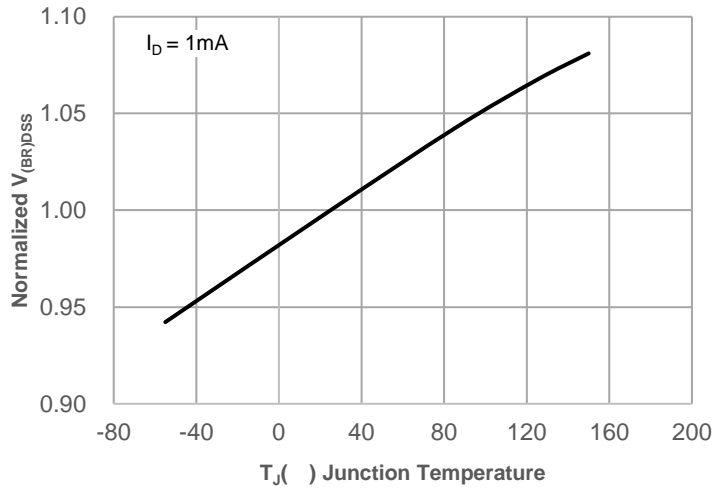


## Typical Performance Characteristics



## Typical Performance Characteristics

Figure 11: Normalized Breakdown voltage vs. Junction Temperature



Test Circuit



Figure 1: Gate Charge Test Circuit & Waveform

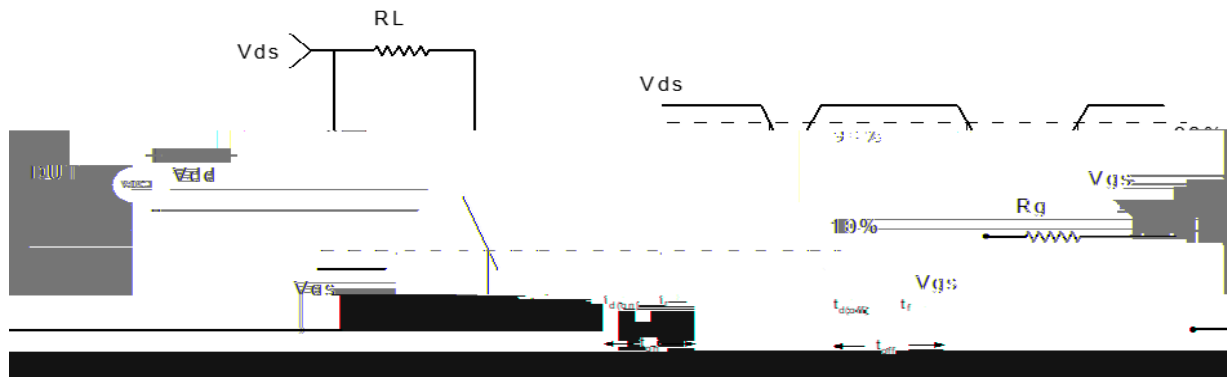


Figure 2: Resistive Switching Test Circuit & Waveform

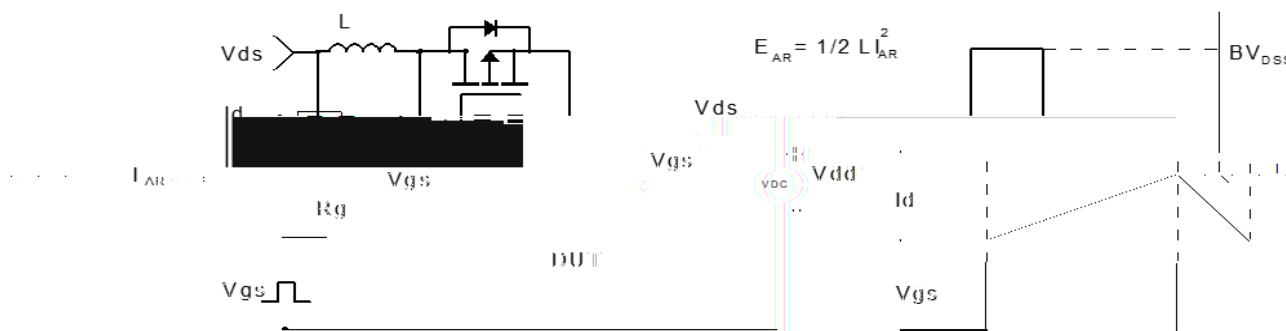
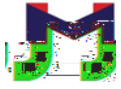


Figure 3: Unclamped Inductive Switching Test Circuit & Waveform

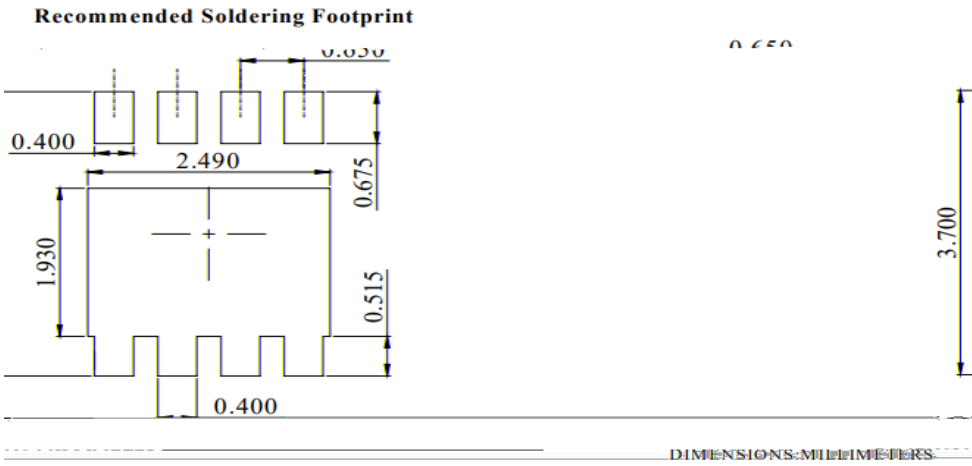
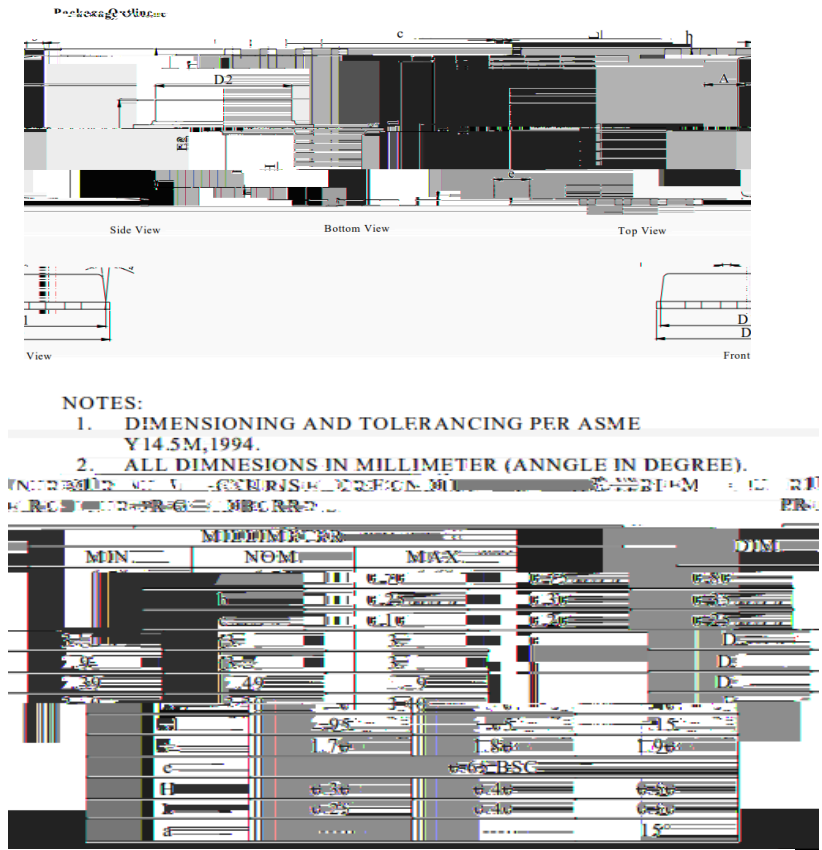


Figure 4: Diode Recovery Test Circuit & Waveform





### Package Mechanical Data(PDFN3X3-8L)



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