

40V, 64A 4 6 4 , 4 4 46

Parameters	Value	Unit
$V_{DSS}$	40	V
$V_{GS(th)}_{Typ}$	2.9	V
$I_D(@V_{GS}=10V)$	64	A
$R_{DS(ON)}_{Typ}(@V_{GS}=10V)$	4.6	m $\Omega$

### Ordering Information

Device	Marking	MSL	Form	Package	Reel(pcs)	Per Carton (pcs)
JMSH0406PK-13	SH0406P	3	Tape&Reel	TO-252-3L	2500	25000

Symbol	Unit
$V_{DS}$	V
$V_{GS}$	V
$I_{DM}$	A
$E_{AS}$	mJ
$T_J, T_{STG}$	$^{\circ}C$

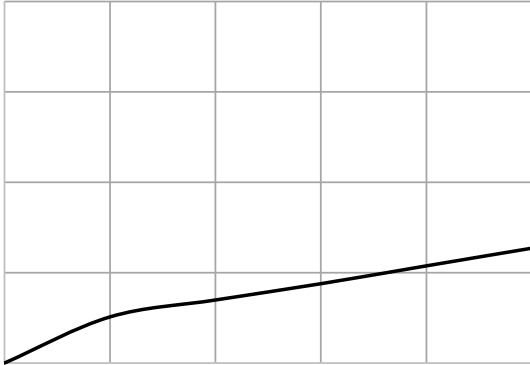
Symbol	Unit
$R_{JA}$	
$R_{JC}$	

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

Symbol	Conditions	Min.	Typ.	Max.	Unit
<b>Off Characteristics</b>					
$V_{(BR)DSS}$		40	-	-	V
$I_{DSS}$		-	-	1.0	$\mu\text{A}$
$I_{GSS}$		-	-	$\pm 100$	nA
$V_{GS(th)}$		2.0	2.9	3.8	V
$R_{DS(ON)}$		-	4.6	6.0	$\text{m}\Omega$
$R_g$		-	0.9	-	$\Omega$
$C_{iss}$		863	1208	1631	pF
$C_{oss}$		538	753	1016	pF
$C_{rss}$		51	71	96	pF
$Q_g$					

## **Typical Performance Characteristics**

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# Typical Performance Characteristics

### Test Circuit



Figure 1: Gate Charge Test Circuit & Waveform

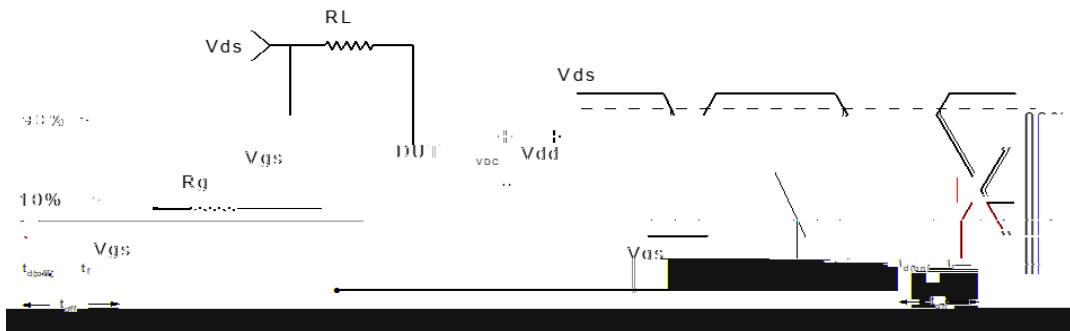


Figure 2: Resistive Switching Test Circuit & Waveform

Figure 3: Unclamped Inductive Switching Test Circuit& Waveform



Figure 4: Diode Recovery Test Circuit & Waveform



**Package Mechanical Data(TO-252-3L)**

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