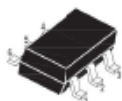
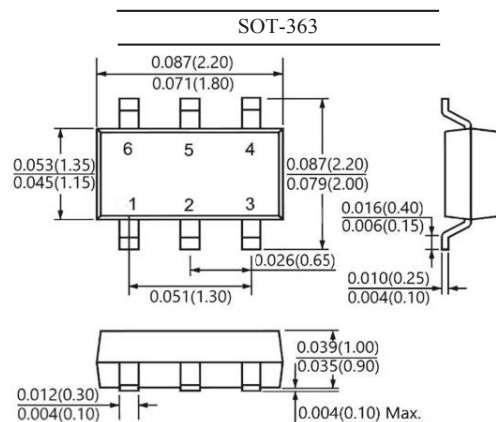
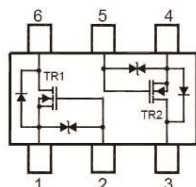


FEATURES

- Low Gate Threshold Voltage
- Fast Switching Speed



1.Source 2.Gate 3.Drain
4.Source 5.Gate 6.Drain



Maximum Ratings($T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Drain-Source Voltage	V_{DS}	60	V
Gate-Source Voltage	V_{GS}	± 20	V
Continuous Drain Current Steady State	I_D	350 290	mA
Pulsed Drain Current	I_{DM}	1.5	A
Power Dissipation	P_D	320 410	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	400 312	$^\circ\text{C} / \text{W}$
Operating and Storage Temperature Range	T_J, T_{stg}	- 55 to + 150	$^\circ\text{C}$

Note:

1. Device mounted on FR-4 PCB, with minimum recommended pad layout.

Device mounted on 1" × 1" FR-4 PCB with high coverage 2oz. Copper, single sided. Pulse width $\leq 10\mu\text{s}$, Duty Cycle $\leq 1\%$

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

Parameter	Conditions	Symbol	Min.	Typ.	Max.	Unit
Static						
Drain Source Breakdown Voltag	I _D =250μA	BV _{DSS}	60	-	-	V
Zero Gate Voltage Drain Current	V _{DS} =48V	I _{DSS}	-	-	1	μA
Gate Source Leakage Current	V _{GS} =±20V	I _{GSS}	-	-	±10	μA
Gate Threshold Voltage	I _D =250μA	V _{GS(th)}	0.5	-	1.0	V
Static Drain Source On-Resistance	V _{GS} =4.5V, I _D =100mA	R _{DS(ON)}	-	-	2.0	Ω
	V _{GS} =2.5V, I _D =50mA		-	-	2.5	
	V _{GS} =1.8V, I _D =50mA		-	-	3.0	
Forward Transconductance	V _{DS} =10V, I _D =0.2A	g _{FS}	-	1.8	-	S
Dynamic						
Input Capacitance	V _{GS} =0V, V _{DS} =30V, f=1MHz	C _{iss}	-	32.0	-	pF
Output Capacitance		C _{oss}	-	3.9	-	
Reverse Transfer Capacitance		C _{rss}	-	2.4	-	
Turn on Delay Time	V _{DD} =30V, I _D =0.2A, V _{GS} =10V, R _G =25Ω	t _{d(on)}	-	2.4	-	ns
Turn on Rise Time		t _r	-	2.5	-	
Turn off Delay Time		t _{d(off)}	-	22.6	-	
Turn off Fall Time		t _f	-	12.5	-	
Drain-Source Body Diode						
Diode Forward Voltage	I _S =115mA	V _{SD}	-	-	1.3	V

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RATINGS AND CHARACTERISTIC CURVES

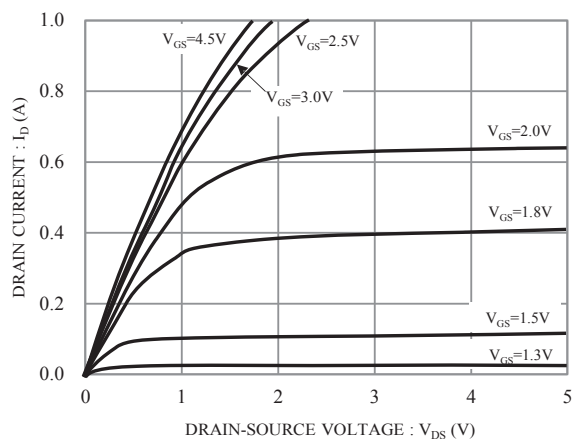


Fig.1 Typical Output Characteristics

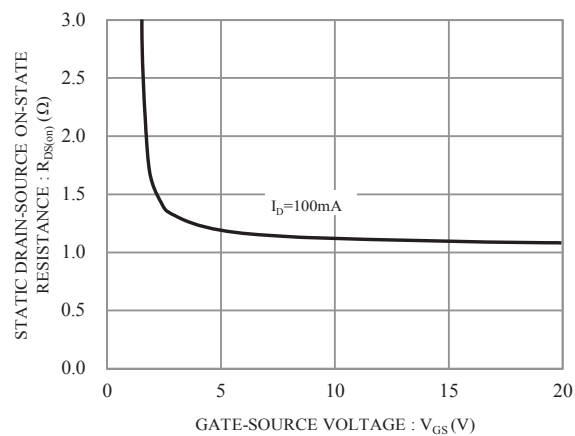


Fig.2 Static Drain-Source On-State Resistance vs Gate-Source Voltage

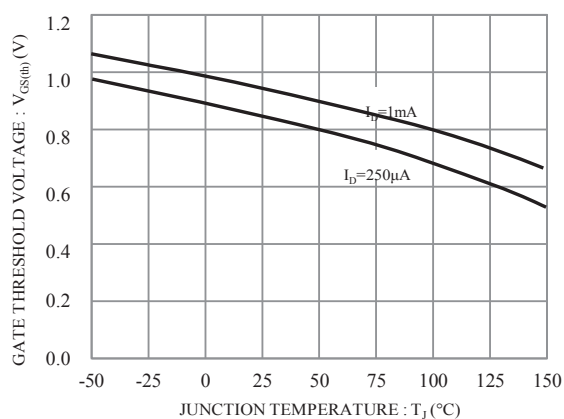


Fig.3 Gate Threshold Voltage vs. Junction Temperature

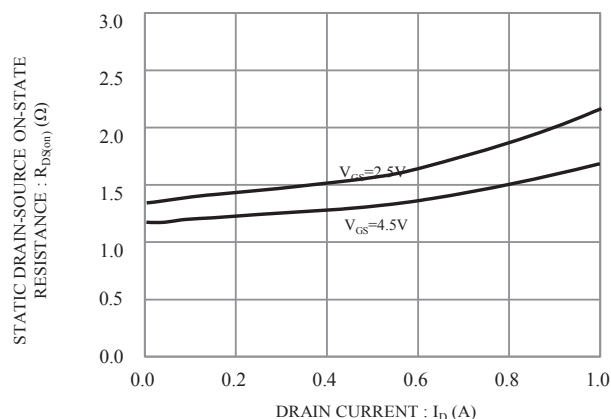
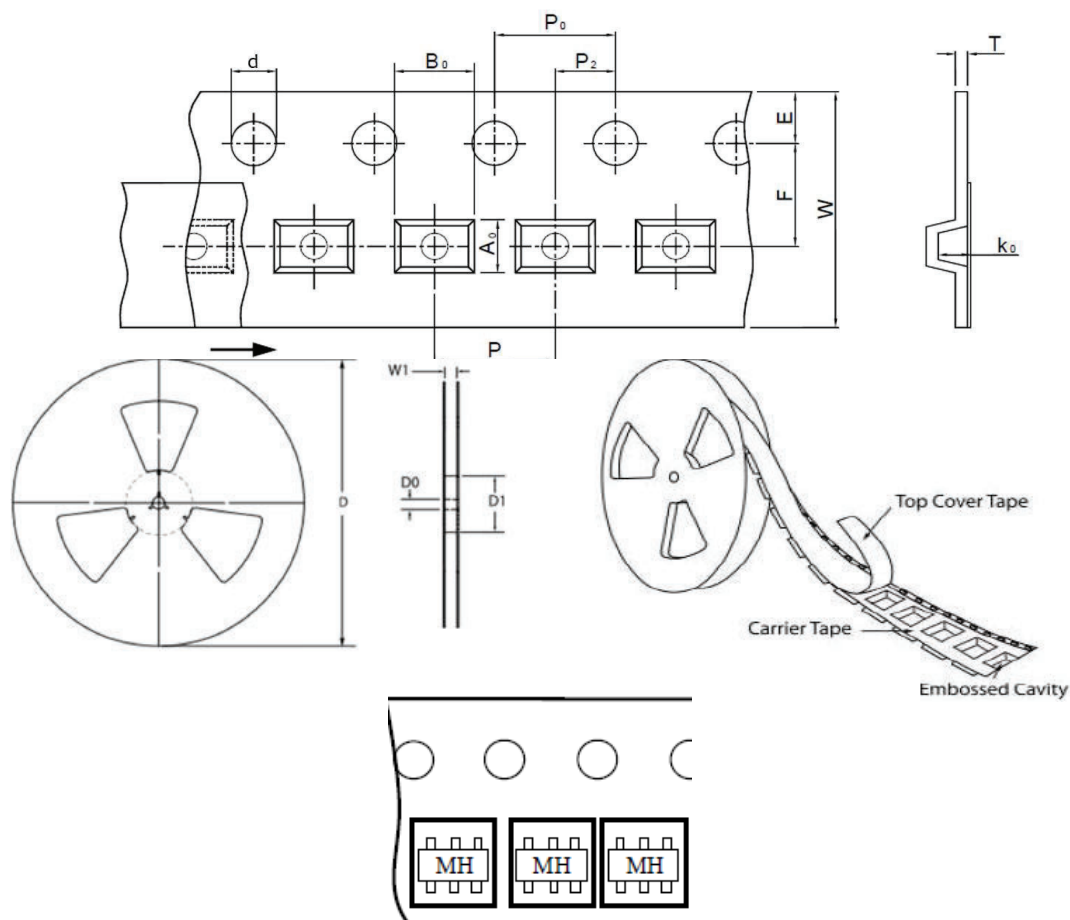


Fig.4 Static Drain-Source On-State Resistance vs. Drain Current

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TAPE & REEL SPECIFICATION

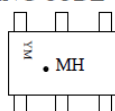


Item	Symbol	SOT-363
Carrier width	A_0	2.30 ± 0.10
Carrier length	B_0	2.30 ± 0.10
Carrier depth	K_0	1.20 ± 0.10
Sprocket hole	d	1.50 ± 0.10
Reel outside diameter	D	178.00 ± 2.00
Feed hole width	D_0	13.00 ± 0.50
Reel inner diameter	D_1	MIN. 50.00
Sprocket hole position	E	1.75 ± 0.10
Punch hole position	F	3.50 ± 0.10
Sprocket hole pitch	P_0	4.00 ± 0.10
Punch hole pitch	P_1	4.00 ± 0.10
Embossment center	P_2	2.00 ± 0.10
Overall tape thickness	T	0.60 ± 0.10
Tape width	W	8.00 ± 0.30
Reel width	W_1	MAX. 10.00

ORDER INFORMATION

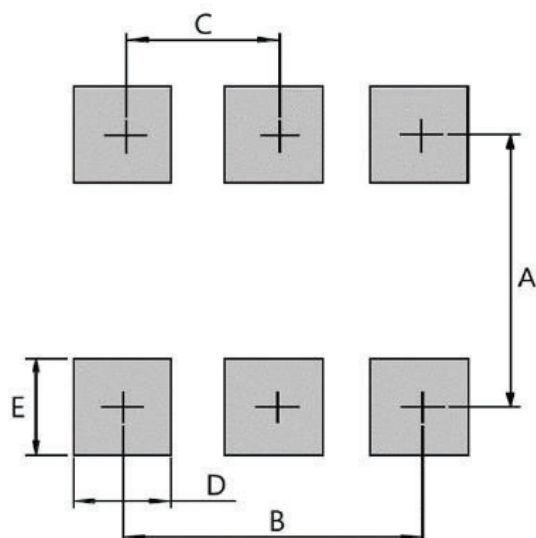
Package	Reel Size	Quantity
SOT-363	7"	3,000

MARKING CODE



"MH" $\longrightarrow$ Part No.
 "•" $\longrightarrow$ Halogen Free
 "YM" $\longrightarrow$ Date Code; Y : Year; M : Month
 "N" $\longrightarrow$ 1月=1; 2月=2; 3月=3; 4月=4; 5月=5; 6月=6; 7月=7; 8月=8; 9月=9; 10月=0; 11月=A; 12月=B
 "Y" $\longrightarrow$ 2020年1月= $\begin{smallmatrix} \square & \square & \square \\ \square & \square & \square \end{smallmatrix}$ 2021年1月= $\begin{smallmatrix} \square & \square & \square \\ \square & \square & \square \end{smallmatrix}$ 2022年1月= $\begin{smallmatrix} \square & \square & \square \\ \square & \square & \square \end{smallmatrix}$

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Unit : mm

PACKAGE	A	B	C	D	E
SOT-363	1.90	1.30	0.65	0.42	0.60

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