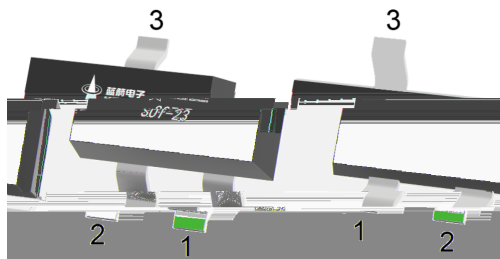
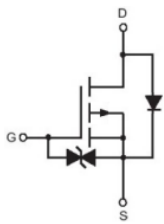


SOT-23 P

P-CHANNEL MOSFET in a SOT-23 Plastic Package.

Low threshold voltage, Direct interface to C-MOS, TTL etc, High-speed switching,ESD Improved Capability 1000V,HF Product.

Line current interrupter in telephone sets, Relay, High speed and line transformer drivers.



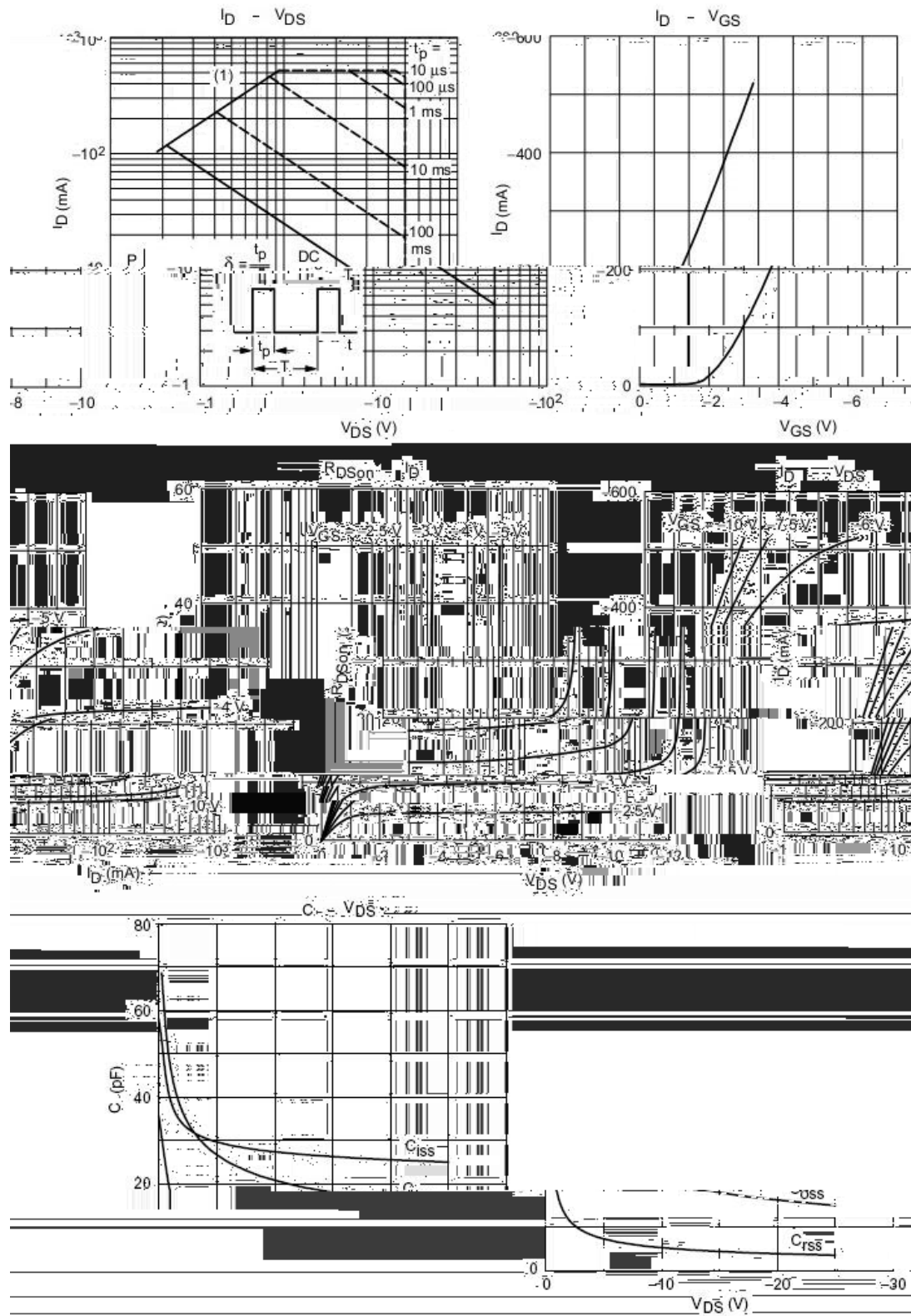
PIN1 G PIN 2 S PIN 3 D

Marking

HSP

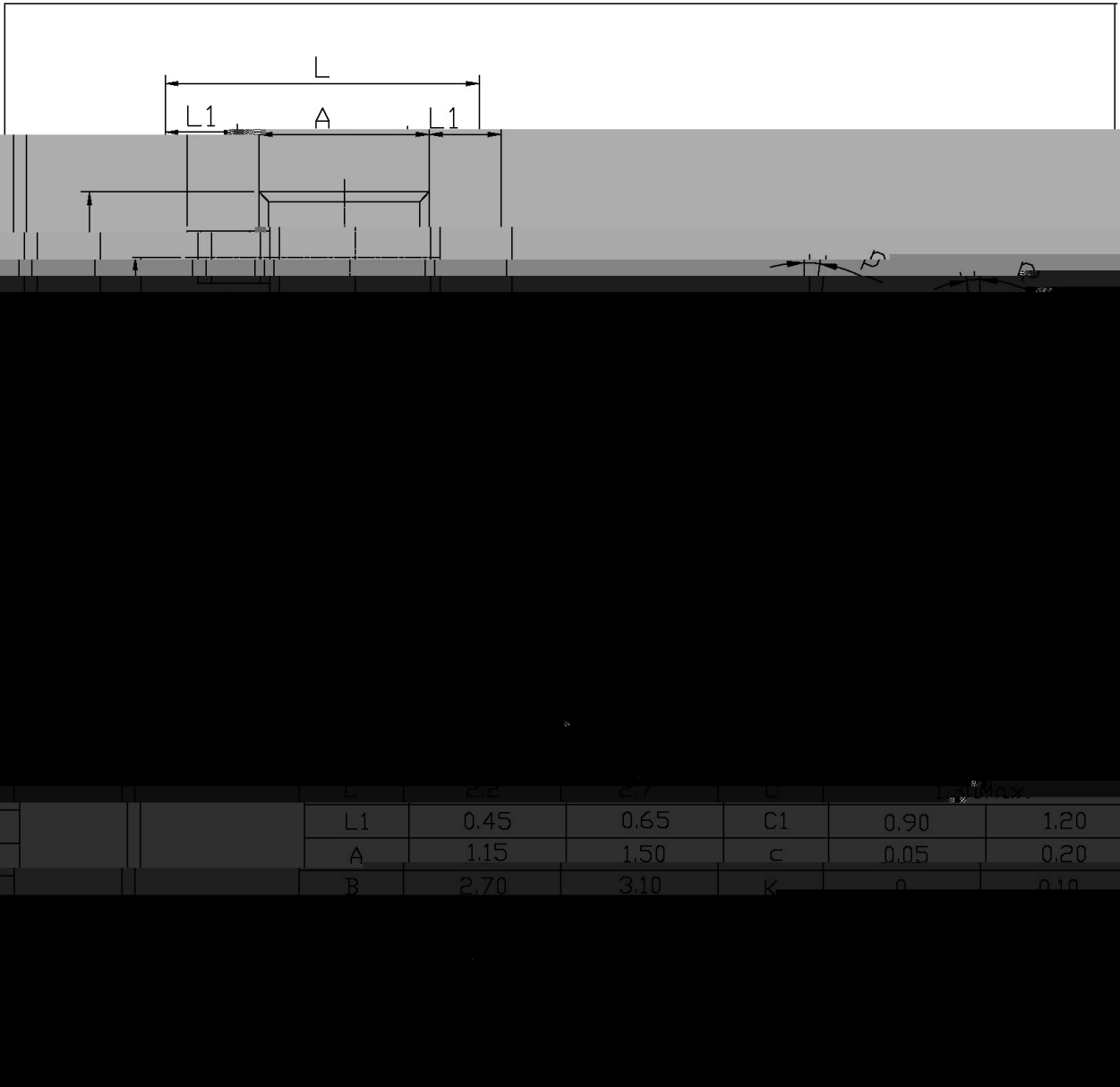
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	-50	V
Drain Current – Continuous	I_D	-130	mA
Peak Drain Current	I_{DM}	-520	mA
Gate-Source Voltage	V_{GS}	± 20	V
Thermal Resistance, Junction-to-Ambient	R_{JA}	500	/W
Storage Temperature Range	T_{stg}	-65 to 150	
Junction Temperature Range	T_j	150	

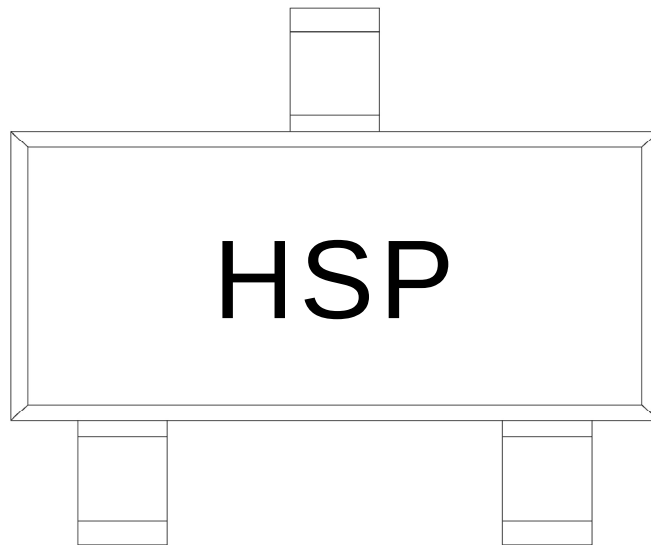
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain–Source Breakdown Voltage	V_{DS}	$V_{GS}=0V$ $I_D=-250$ A	-50			V
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$ $I_D=-250$ A	-0.8		-2.0	V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{GS}=0V$ $V_{DS}=-40V$			-100	nA
		$V_{GS}=0V$ $V_{DS}=-50V$			-10	A
		$V_{GS}=0V$ $V_{DS}=-50V$ $T_j=125$ °C			-60	A
Gate–Body Leakage.	I_{GSS}	$V_{DS}=0V$ $V_{GS}=\pm 20V$			± 10	A
Static Drain–Source On–Resistance	$R_{DS(on)}$	$V_{GS}=-10V$ $I_D=-130mA$		1.8	5	
Forward Transconductance	G_{FS}	$V_{DS}=-25V$ $I_D=-130mA$	50			mS
Input Capacitance	C_{iss}	$V_{DS}=-25V$ $V_{GS}=0V$ $f=1.0MHz$		25	45	pF
Output Capacitance	C_{oss}			15	25	
Reverse Transfer Capacitance	C_{rss}			3.5	12	
Turn–On Time	t_{on}	$V_{GS}=0V \sim 10V$ $V_{DD}= 40V$ $I_D= 200mA$		3		ns
Turn–Off Time	t_{off}	$V_{GS}=-10V \sim 0V$ $V_{DD}= 40V$ $I_D= 200mA$		7		



SOT-23

单位：mm





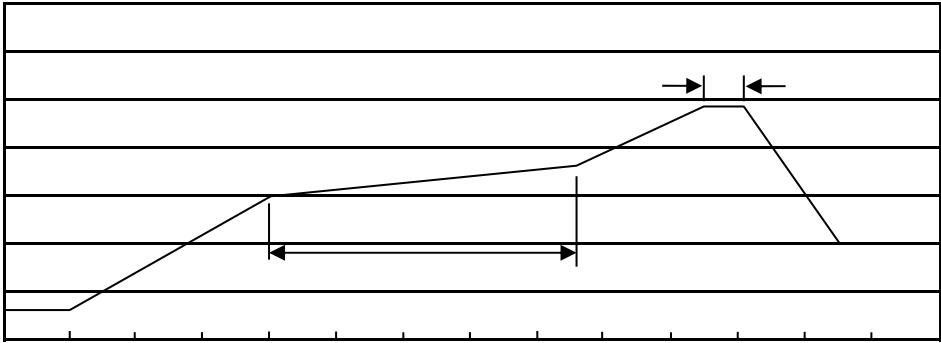
H

SP

Note:

H: Company Code

SP: Product Type Code



- Note:
1. Preheating: 150~180 , Time: 60~90sec.
2. Peak Temp.: 245 5 , Duration: 5 0.5sec.
3. Cooling Speed: 2~10 /sec.
- 1 150 180 60 90sec;
2 245 5 5 0.5sec;
3 2 10 /sec.

260 5 10 1 sec. Temp.: 260±5 Time: 10±1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
SOT-23	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205