

P-CHANNEL POWER MOS FET ARRAY SWITCHING TYPE

DESCRIPTION

The μPA1523 is P-channel Power MOS FET Array that built in 4 circuits designed for solenoid, motor and lamp driver.

FEATURES

- 4 V driving is possible
- Large Current and Low On-state Resistance
 $I_{D(pulse)} = \mp 8 \text{ A}$
 $R_{DS(on)} \leq 0.8 \Omega \text{ MAX. (} V_{GS} = -10 \text{ V)}$
 $R_{DS(on)} \leq 1.3 \Omega \text{ MAX. (} V_{GS} = -4 \text{ V)}$
- 2.54 mm Pitch (0.1 inch)

ORDERING INFORMATION

Part Number	Package	Quality Grade
μPA1523H	10-Pin SIP	Standard

Please refer to "Quality grade on NEC Semiconductor Devices" (Document number IEI-1209) published by NEC Corporation to know the specification of quality grade on the devices and its recommended applications.

ABSOLUTE MAXIMUM RATINGS ($T_a = 25 \text{ }^\circ\text{C}$)

Drain to Source Voltage	V_{DSS}	-60	V
Gate to Source Voltage	$V_{GSS(AC)}$	±20	V
Drain Current (DC)	$I_{D(DC)}$	±2.0	A/unit
Drain Current (pulse)	$I_{D(pulse)*}$	±8.0	A/unit
Total Power Dissipation (4 circuits) < $T_c = 25 \text{ }^\circ\text{C}$ >	P_{T1}	28	W
Total Power Dissipation (4 circuits) < $T_a = 25 \text{ }^\circ\text{C}$ >	P_{T2}	3.5	W
Channel Temperature	T_{ch}	150	°C
Storage Temperature	T_{stg}	-55 to +150	°C

* $PW \leq 300 \mu\text{s}$, Duty Cycle $\leq 10 \%$

