



Features

- Surface Mount Devices
- Standard 4532mm(1812mils) footprint
- Surface mount packaging for automated assembly
- Compatible with Pb and Pb-free solder

Applications

- Over-current and over-temperature protection of automotive electronics
- PC motherboards, Hard disk driver
- POS Equipment
- USB port protection
- HDMI source protection

Electrical Characteristics

P/N	I _H (A)	I _T (A)	V _{max} (V)	I _{max} (A)	Maximum Time to trip		P _d type (w)	Resistance		Approval cURus
					(A)	(Sec.)		R _{min} (Ω)	R _{1max} (Ω)	
TLC-MSMD010	0.10	0.30	60	10	0.5	1.50	0.8	0.700	15.000	●
TLC-MSMD010/50	0.10	0.30	50	10	0.5	1.50	0.8	0.700	15.000	○
TLC-MSMD014	0.14	0.34	60	10	1.5	0.15	0.8	0.400	6.500	●
TLC-MSMD014/50	0.14	0.34	50	10	1.5	0.15	0.8	0.400	6.500	○
TLC-MSMD020	0.20	0.40	30	10	8.0	0.20	0.8	0.750	5.000	●
TLC-MSMD020/60	0.20	0.40	60	10	1.5	0.15	0.8	0.400	6.000	●
TLC-MSMD020/50	0.20	0.40	50	10	1.5	0.15	0.8	0.400	6.000	○
TLC-MSMD030	0.30	0.60	30	10	8.0	0.10	0.8	0.300	3.000	●
TLC-MSMD050	0.50	1.00	15	40	8.0	0.15	0.8	0.150	1.000	●
TLC-MSMD050/16	0.50	1.00	16	40	8.0	0.15	0.8	0.150	1.000	○
TLC-MSMD050/30	0.50	1.00	30	40	8.0	0.15	0.8	0.150	1.000	○
TLC-MSMD075	0.75	1.50	16	40	8.0	0.20	0.8	0.110	0.450	●
TLC-MSMD075-P	0.75	1.50	16	100	8.0	0.20	0.8	0.110	0.450	○
TLC-MSMD075/24	0.75	1.50	24	40	8.0	0.20	0.8	0.110	0.450	●
TLC-MSMD075/33	0.75	1.50	33	40	8.0	0.20	0.8	0.110	0.450	●
TLC-MSMD110	1.10	2.20	6	100	8.0	0.30	0.8	0.040	0.225	●
TLC-MSMD110/8	1.10	2.20	8	100	8.0	0.30	0.8	0.040	0.225	○
TLC-MSMD110/12	1.10	2.20	12	100	8.0	0.30	0.8	0.040	0.225	○
TLC-MSMD110/16	1.10	2.20	16	100	8.0	0.50	0.8	0.040	0.225	●
TLC-MSMD110/24	1.10	2.20	24	100	8.0	0.50	1.2	0.055	0.180	●
TLC-MSMD110/33	1.10	2.20	33	100	8.0	0.50	1.2	0.055	0.180	○
TLC-MSMD125	1.25	2.50	6	40	8.0	0.40	0.8	0.035	0.140	●
TLC-MSMD125/8	1.25	2.50	8	100	8.0	0.40	0.8	0.035	0.140	○
TLC-MSMD125/12	1.25	2.50	12	100	8.0	0.40	0.8	0.035	0.140	○
TLC-MSMD125/16	1.25	2.50	16	100	8.0	0.40	0.8	0.035	0.140	○
TLC-MSMD125-P	1.25	2.50	16	100	8.0	0.40	0.8	0.035	0.140	○
TLC-MSMD150	1.50	3.00	6	100	8.0	0.50	0.8	0.030	0.120	●
TLC-MSMD150/8	1.50	3.00	8	100	8.0	0.50	0.8	0.030	0.120	○
TLC-MSMD150/12	1.50	3.00	12	100	8.0	0.50	1.0	0.030	0.120	●
TLC-MSMD150/16	1.50	3.00	16	100	8.0	0.50	1.0	0.030	0.120	○
TLC-MSMD150/24	1.50	3.00	24	100	8.0	1.50	1.2	0.030	0.140	●
TLC-MSMD160/6	1.60	3.20	6	100	8.0	1.00	1.0	0.025	0.120	○
TLC-MSMD160	1.60	3.20	8	100	8.0	1.00	1.0	0.025	0.120	●
TLC-MSMD160/12	1.60	3.20	12	100	8.0	1.00	1.0	0.025	0.120	●
TLC-MSMD160/16	1.60	3.20	16	100	8.0	1.00	1.0	0.025	0.120	●



P/N	I _H (A)	I _T (A)	V _{max} (V)	I _{max} (A)	Maximum Time to trip		P _d type (w)	Resistance		Approval cURus
					(A)	(Sec.)		R _{min} (Ω)	R1 _{maxn} (Ω)	
TLC-MSMD200	2.00	4.00	8	40	8.0	3.00	1.2	0.020	0.080	●
TLC-MSMD200	2.00	4.00	8	100	8.0	3.00	1.2	0.020	0.080	○
TLC-MSMD200/12	2.00	4.00	12	100	8.0	3.00	1.2	0.020	0.080	○
TLC-MSMD200/16	2.00	4.00	16	100	8.0	3.00	1.2	0.020	0.080	○
TLC-MSMD200/8S	2.00	4.00	8	40	8.0	3.00	1.2	0.020	0.080	●
TLC-MSMD200/6S	2.00	4.00	6	40	8.0	3.00	1.2	0.020	0.080	○
TLC-MSMD250/16	2.50	5.00	16	100	8.0	5.00	1.2	0.015	0.100	●
TLC-MSMD250/12	2.50	5.00	12	100	8.0	5.00	1.2	0.015	0.100	○
TLC-MSMD250/8	2.50	5.00	8	100	8.0	5.00	1.2	0.015	0.100	○
TLC-MSMD250/8S	2.50	5.00	8	100	8.0	5.00	1.2	0.015	0.100	○
TLC-MSMD250/6S	2.50	5.00	6	100	8.0	5.00	1.2	0.015	0.100	○
TLC-MSMD260	2.60	5.20	6	100	8.0	5.00	1.2	0.015	0.080	●
TLC-MSMD260/12	2.60	5.20	12	100	8.0	5.00	1.2	0.015	0.080	○
TLC-MSMD260/16	2.60	5.20	16	100	8.0	5.00	1.2	0.015	0.080	○
TLC-MSMD260/8S	2.60	5.20	8	100	8.0	5.00	1.2	0.015	0.080	○
TLC-MSMD260/6S	2.60	5.20	6	100	8.0	5.00	1.2	0.015	0.080	●
TLC-MSMD300	3.00	6.00	12	100	8.0	5.00	1.2	0.012	0.060	○
TLC-MSMD300/6	3.00	6.00	6	100	8.0	5.00	1.2	0.012	0.060	●
TLC-MSMD300/8	3.00	6.00	8	100	8.0	5.00	1.2	0.012	0.060	○

Note:

I_H: Maximum current at which the device will not trip in 25°C still air.

I_T: Minimum current at which the device will trip in 25°C still air.

V_{max}: Maximum voltage device can withstand without damage at rated current.

I_{max}: Maximum fault current device can withstand without damage at rated voltage.

T_{trip}: Maximum time to trip(s) at assigned current.

P_d typ: Rated working power.

R_{min}: Minimum resistance of device prior to trip at 25°C.

R1_{max}: Maximum resistance of device measured one hour after tripping at 25°C.

Ordering Information

Series	Hold Current	Max. Voltage	Qty
TLC-MSMD			

