

# TLC-NSMD Series / PPTC Fuse



## Features

- Surface Mount Devices
- Standard 3216mm(1206mils) footprint
- Surface mount packaging for automated assembly
- Compatible with Pb and Pb-free solder reflow profiles.

## Applications

- Mobile phones- Battery and port protection
- PC motherboards – Plug and Play protection
- PDAs/Digital cameras
- USB port protection
- HDMI source protection
- Game console port protection

## Electrical Characteristics

P/N	I <sub>H</sub> (A)	I <sub>T</sub> (A)	V <sub>max</sub> (V)	I <sub>max</sub> (A)	Maximum Time to trip		P <sub>d</sub> type (w)	Resistance		Approval cURus
					(A)	(Sec.)		R <sub>min</sub> (Ω)	R1 <sub>max</sub> (Ω)	
TLC-NSMD005	0.05	0.15	30.0	10	0.25	1.50	0.40	2.500	40.00	●
TLC-NSMD005/48	0.05	0.15	48.0	10	0.25	1.50	0.40	2.500	40.00	○
TLC-NSMD010	0.10	0.25	30.0	10	0.50	1.20	0.40	1.400	15.00	●
TLC-NSMD010/48	0.10	0.25	48.0	10	0.50	1.20	0.40	1.400	15.00	○
TLC-NSMD012	0.12	0.29	30.0	10	1.00	0.20	0.40	1.350	8.500	●
TLC-NSMD012/48	0.12	0.29	48.0	10	1.00	0.20	0.40	1.350	8.500	○
TLC-NSMD020	0.20	0.46	24.0	10	1.00	0.60	0.60	0.600	2.600	●
TLC-NSMD020/30	0.20	0.46	30.0	10	1.00	0.60	0.60	0.600	2.600	○
TLC-NSMD025	0.25	0.55	16.0	10	1.25	0.60	0.60	0.400	2.400	●
TLC-NSMD025/24	0.25	0.55	24.0	10	1.25	0.60	0.60	0.400	2.400	○
TLC-NSMD035	0.35	0.75	6.0	40	8.00	0.10	0.60	0.300	1.200	●
TLC-NSMD035/16	0.35	0.75	16.0	40	8.00	0.10	0.60	0.300	1.200	○
TLC-NSMD035/24	0.35	0.75	24.0	40	8.00	0.10	0.60	0.300	1.200	○
TLC-NSMD050	0.50	1.00	13.2	40	8.00	0.10	0.40	0.150	0.750	●
TLC-NSMD050-P	0.50	1.00	13.2	100	8.00	0.10	0.40	0.150	0.750	○
TLC-NSMD050/8	0.50	1.00	8.0	100	8.00	0.10	0.60	0.150	0.750	○
TLC-NSMD050/16	0.50	1.00	16.0	40	8.00	0.10	0.40	0.150	0.750	○
TLC-NSMD075	0.75	1.50	6.0	100	8.00	0.10	0.40	0.100	0.400	●
TLC-NSMD075/8	0.75	1.50	8.0	100	8.00	0.10	0.40	0.100	0.400	○
TLC-NSMD075/13.2	0.75	1.50	13.2	100	8.00	0.10	0.40	0.100	0.400	○
TLC-NSMD100	1.00	2.00	6.0	100	8.00	0.10	0.60	0.060	0.280	●
TLC-NSMD100-P	1.00	2.00	6.0	100	8.00	0.10	0.60	0.060	0.280	●
TLC-NSMD100/12	1.00	2.00	12.0	100	8.00	0.10	0.60	0.060	0.280	○
TLC-NSMD100/8	1.00	2.00	8.0	100	8.00	0.10	0.60	0.060	0.280	○
TLC-NSMD100/6S	1.00	2.00	6.0	100	8.00	0.10	0.60	0.060	0.280	●
TLC-NSMD100/8S	1.00	2.00	8.0	100	8.00	0.10	0.60	0.060	0.280	○
TLC-NSMD110	1.10	2.20	6.0	100	8.00	0.10	0.60	0.060	0.280	●
TLC-NSMD110-P	1.10	2.20	6.0	100	8.00	0.10	0.60	0.060	0.280	●
TLC-NSMD110/12	1.10	2.20	12.0	100	8.00	0.10	0.60	0.060	0.280	○
TLC-NSMD110/8	1.10	2.20	8.0	100	8.00	0.10	0.60	0.060	0.280	○
TLC-NSMD110/6S	1.10	2.20	6.0	100	8.00	0.10	0.60	0.060	0.280	●
TLC-NSMD110/8S	1.10	2.20	8.0	100	8.00	0.10	0.60	0.060	0.280	○
TLC-NSMD150	1.50	3.00	6.0	100	8.00	0.30	0.60	0.030	0.170	●
TLC-NSMD150/8	1.50	3.00	8.0	100	8.00	0.30	0.60	0.030	0.170	○
TLC-NSMD200	2.00	4.00	6.0	100	8.00	1.00	0.70	0.020	0.120	●

### Note:

- I<sub>H</sub>: Maximum current at which the device will not trip in 25°C still air.  
 I<sub>T</sub>: Minimum current at which the device will trip in 25°C still air.  
 V<sub>max</sub>: Maximum voltage device can withstand without damage at rated current.  
 I<sub>max</sub>: Maximum fault current device can withstand without damage at rated voltage.  
 T<sub>trip</sub>: Maximum time to trip(s) at assigned current.  
 P<sub>d</sub> typ: Rated working power.  
 R<sub>min</sub>: Minimum resistance of device prior to trip at 25°C.  
 R1<sub>max</sub>: Maximum resistance of device measured one hour after tripping at 25°C.

## Ordering Information

Series	Hold Current	Max. Voltage	Qty
TLC-NSMD			

