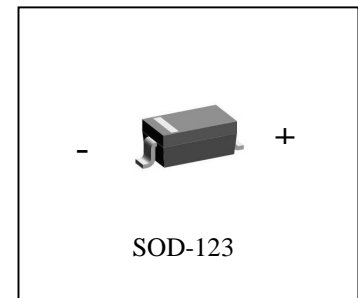


**FEATURES**

Fast Switching Speed  
 Surface Mount Package Ideally Suited for Automatic Insertion  
 For General Purpose Switching Applications  
 High Conductance

**MARKING: 51**

**MMSD4148**

**MAXIMUM RATINGS (TA=25°C unless otherwise noted)**

Parameter	Symbol	Value	Units
Non-Repetitive Peak reverse voltage	$V_{RM}$	100	V
Average Rectified Output Current	$I_O$	200	mA
Peak forward surge current @=1.0μs	$I_{FSM}$	2	A
Power Dissipation	$P_d$	500	mW
Thermal	$R_{\theta JA}$	290	°C/W
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{STG}$	-65~+150	°C

**ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)**

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	$V_F$			1.0	V	$I_F = 10 \text{ mA}$
Reverse current	$I_{R1}$			25	μA	$V_R = 20 \text{ V}$
Reverse current	$I_{R2}$			5.0	nA	$V_R = 75 \text{ V}$
Capacitance between terminals	$C_T$			4	pF	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$
Reverse Recovery Time	$t_{rr}$			4	ns	$I_F = I_R = 10 \text{ mA}$ $I_{rr} = 0.1 I_R, R_L = 100 \Omega$

**MMSD4148** Typical Characteristics

