







Features

- ♦ Designed for mounting on small surface
- → Extremely thin / leadless package
- High mounting capability, strong surge withstand high reliability.
- Use in sensitive electronics potection against volatge transient induced by inductive load switching and lighting on Ics, MOSFET,signal lines of sensor units for consumer, computer, industrial, automotive and telecommunication.

Mechanical Data

- ♦ Cases: 1005 standard package molded plastic
- ♦ Epoxy: UL 94V-O rate flame retardant
- ♦ Terminal: Gold plated, lead free, solderable per MIL-STD-750, Method 2026 guaranteed
- ♦ Polarity: Color band denotes cathode.
- ♦ Mounting position : Any
- ♦ Weight: 0.006 gram(Approx.)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

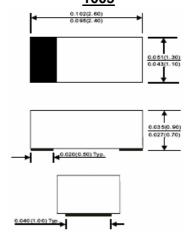
Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number		Symbol	Min.	Тур.	Max.	Units
Repetitive Peak Reverse Voltage		V_{RRM}			100	V
Reverse Voltage		V_R			75	V
Average Forward Rectified Current		I _(AV)			150	mA
Repetitive Peak Forward Current		I _{FRM}			300	mA
Peak Forward Surge Current	Tp = 1uS Tp = 1mS	I _{FSM}		4 1		А
Power Dissipation		P_{D}			350	mW
Forward Voltage	_F = 50 mA DC	V_{F}			1.0	V
Reverse Leakage Current	VR = 20V VR=75V	I _R			25 2.5	nA uA
Junction Capacitance between terminal F=1MHz and 0VDC Reverse Bias		C _T			4	pF
Reverse Recovery Time IF = IR = 10mA, R _L = 100ohms, I _{RR} = 1mA					4	nS
Junction Temperature		T_J			125	οС
Storage Temperature		T_{STG}	40		125	οС

TS4148 RW

350MW Surface Mount Switching Diode 1005



Dimensions in inches and (millimeters)

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RATINGS AND CHARACTERISTIC CURVES (TS4148 RW)

150

125

Average Forward Current (%) 80 60 60 40 20 20

FIG.1 Forward Current Derated Curve

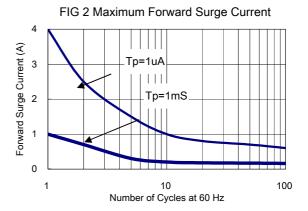


FIG 3 Maximum Forward Characteristics

50 75 100 Ambient Temperature (°C)

0

0

25

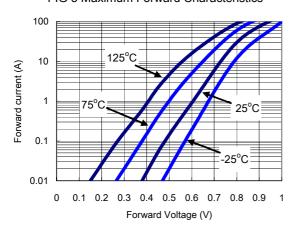


FIG 4 Maximum Reverse characteristic

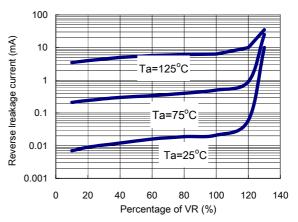
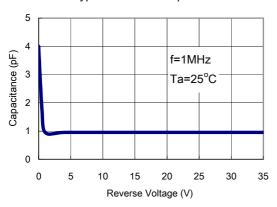


FIG 5 Typical Junction Capacitance



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