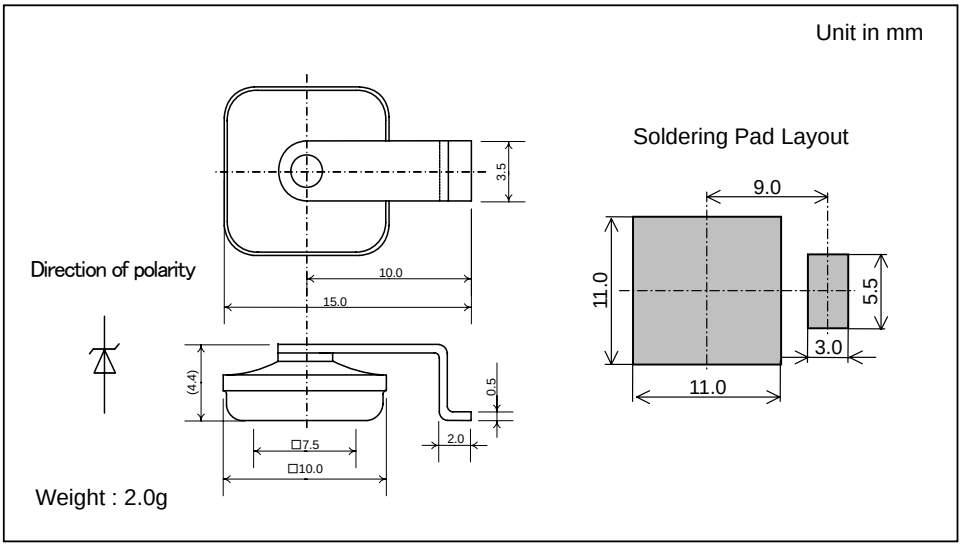
ZSH5MT53C

FEATURES

- High transient reverse power capability suitable for Load Dump Surge protecting for automobile electronic components etc.
- JEDEC DO-218 soldering pad Layout compatible.

OUTLINE DRAWING



ABSOLUTE MAXIMUM RATINGS

Items	Symbols	Units	Ratings
Non-Repetitive Peak Reverse Surge Current	I_{RSM}	A	45(Exponential waveform. See Fig.1, T_j=25°C start)
DC Reverse Voltage	V_{DC}	V	40
Operating Junction Temperature	T_j	°C	-40 ~ +150
Storage Temperature	T_{stg}	°C	-40 ~ +150

CHARACTERISTICS(T_L=25°C)

Items	Symbols	Units	Min.	Typ.	Max.	Test Conditions
Zener Voltage	Vz	V	47.7	53.0	58.3	Iz=10mA
Dynamic Impedance	Zz	Ω	-	-	50	Iz=10mA
Zener Voltage Temperature Coefficient	γ_z	%/°C	-	0.091	-	Iz=10mA
Peak Forward Voltage	V_{FM}	V	-	-	1.2	I_{FM}=6A
Peak Reverse Current	I_{RRM}	μA	-	-	10	V_R=40V

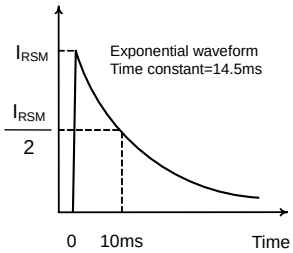


Figure 1. I_{RSM} waveform

HITACHI POWER SEMICONDUCTORS

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