

#### **ABSOLUTE RATINGS** ( $T_A = 25^{\circ}C$ , unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Reverse Voltage	VR	75	V
Peak Reverse Voltage	Vrrm	100	V
RMS Voltage	Vrms	50	V
Maximum DC Blocking Voltage	VDC	75	V
Maximum Average Forward Current at T $_{\rm A}$ =25 $^{\circ}$ C	I <sub>F(AV)</sub>	150	mA
Peak Forward Surge Current, 1.0 µs	I FSM	4	A
Power Dissipation Derate Above 25 °C	Ртот	200	mW
Junction Temperature	TJ	150	°C
Storage Temperature Range	Тѕтс	-55 to 150	°C

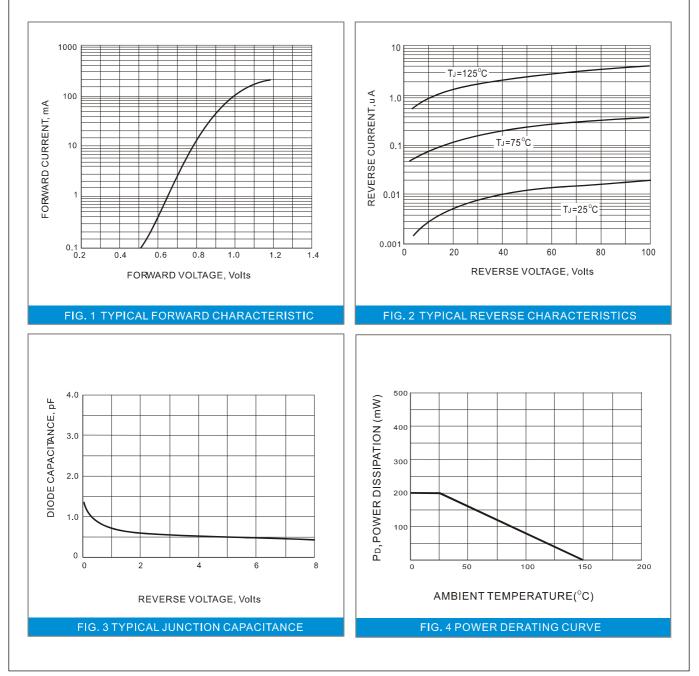
#### THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	VALUE	UNITS
Typical Thermal Resistance	$R_{_{\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	635	°C / W



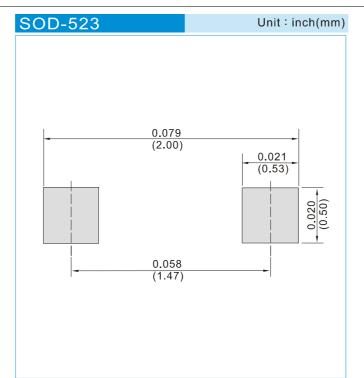
### ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C , unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	VALUE	UNITS
Maximum Forward Voltage	V <sub>F</sub>			V
Reverse Leakage Current	lR	VR=20V VR=75V	0.025 2.5	μA
Maximum Total Capacitance	C <sub>T</sub>	VR=0V, f=1MHz	1.5	pF
Maximum Reverse Recovery Time	t <sub>rr</sub>	l⊧=10mA,lʀ=1mA Vʀ=6V,R∟=100Ω	4	ns





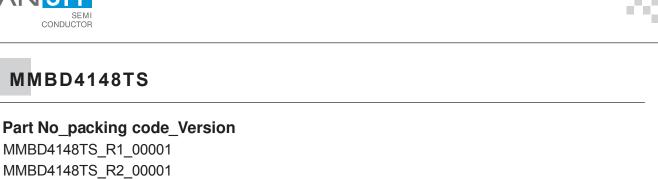
#### MOUNTING PAD LAYOUT



#### **ORDER INFORMATION**

Packing information
T/R - 12K per 13" plastic Reel
T/R - 5K per 7" plastic Reel





For example :

### RB500V-40\_R2\_00001



Packing Code XX			Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd~5<sup>th</sup> Code</sup>
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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