

Maximum Ratings $@T_A = 25^{\circ}C$ unless otherwise specified

Characteristic		Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage		V _{RM}	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	80	V
RMS Reverse Voltage		V _{R(RMS)}	57	V
Forward Continuous Current (Note 5)		I _{FM}	500	mA
Average Rectified Output Current (Note 5)		lo	250	mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0μs @ t = 1.0s	IFSM	4.0 1.0	А

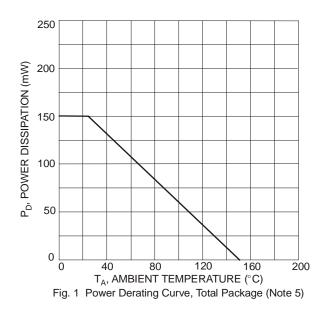
Thermal Characteristics

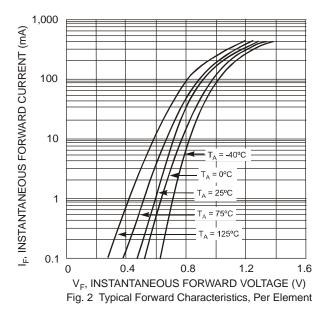
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 5)	PD	150	mW
Thermal Resistance Junction to Ambient (Note 5)	R _{θJA}	833	°C/W
Operating and Storage Temperature Range	TJ, TSTG	-65 to +150	٥C

Electrical Characteristics @T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	V _{(BR)R}	80		V	$I_R = 2.5 \mu A$
	VF	0.62	0.72	V	I _F = 5.0mA
Forward Voltage			0.855		$I_F = 10 \text{mA}$
rorward voltage		—	1.0		I _F = 100mA
		_	1.25		I _F = 150mA
			100	nA	V _R = 70V
Lookago Current (Noto 6)			50	μΑ	V _R = 75V, T _J = 150°C
Leakage Current (Note 6)	I _R	_	30	μA	V _R = 25V, T _J = 150°C
			25	nA	V _R = 20V
Total Capacitance	CT	_	3.5	pF	$V_{R} = 6V, f = 1.0MHz$
Reverse Recovery Time	t _{rr}	_	4.0	ns	$V_{R} = 6V, I_{F} = 5mA$

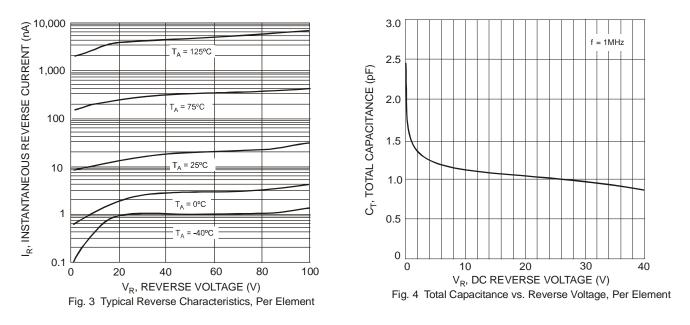
Notes: 5. Device mounted on FR-4 PC board with recommended pad layout, which can be found on our website at http://www.diodes.com. 6. Short duration pulse test used to minimize self-heating effect.



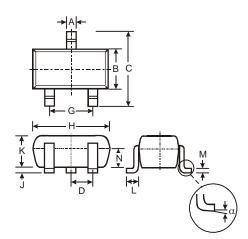




MMBD4448HT /HTA /HTC /HTS

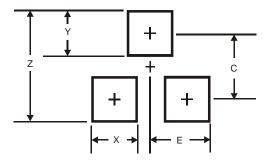


Package Outline Dimensions



SOT-523				
Dim	Min	Max	Тур	
Α	0.15	0.30	0.22	
В	0.75	0.85	0.80	
С	1.45	1.75	1.60	
D			0.50	
G	0.90	1.10	1.00	
Н	1.50	1.70	1.60	
J	0.00	0.10	0.05	
Κ	0.60	0.80	0.75	
L	0.10	0.30	0.22	
М	0.10	0.20	0.12	
Ν	0.45	0.65	0.50	
α	0°	8°		
All Dimensions in mm				

Suggested Pad Layout



Dimensions	Value (in mm)
Z	1.8
Х	0.4
Y	0.51
С	1.3
E	0.7





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