

FEATURES

| Excellent High Temperature Stability

Low Forward Voltage

Low Power Loss/high Efficiency

| High Forward Surge Capability

| Ideal For Automated Placement





Cathode & Heatsink Anode 2 Schematic Symbol

MECHANICAL DATA

Case:TO-277B

| Molding Compound Meets UL 94V-0 Flammability

| Polarity: Indicated by Cathode band

APPROVALS

RoHS Compliance with 2011/65/EU

HF Compliance with IEC61249-2-21:2003

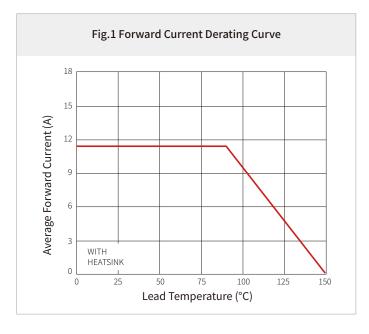
MAXIMUM RATINGS ($T_A = 25$ °C)

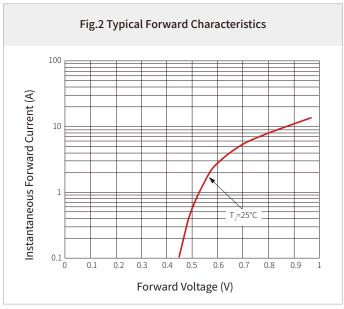
Parameter		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	200	V
Maximum Average Forward Rectified Current		I _{F(AV)}	10	А
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed On Rated Load Per Diode		I _{FSM}	150	А
Maximum Instantaneous Forward Voltage Per Diode (Note 1) T _J =25°C , I _F =10A		$V_{_{\rm F}}$	0.88	V
Maximum Instantaneous Reverse Current	T _J =25°C	l _R	10	μΑ
Per Diode at Rated Reverse Voltage	T _J =125°C		0.5	mA
Typical Thermal Resistance		$R_{\scriptscriptstyle{\thetaJL}}$	15	°C/W
Operating Junction And Storage Temperature Range		T_{J}, T_{STG}	-55 to 150	°C

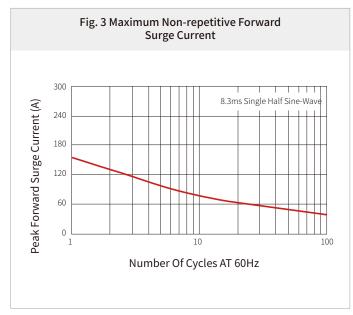
Note 1: Pulse Test with Pulse Width=300µs, 1% Duty Cycle

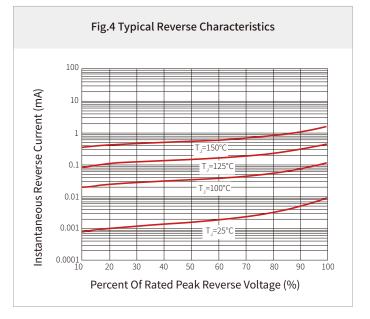


CHARACTERISTIC CURVES

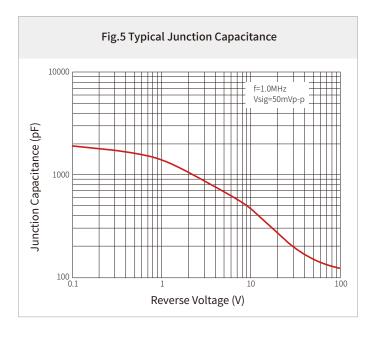






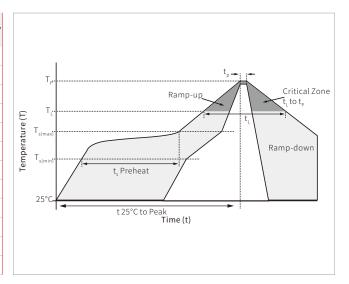




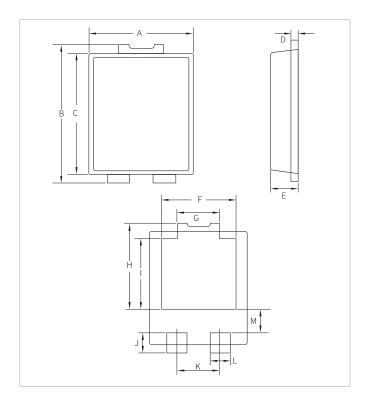


SOLDERING PARAMETERS

	Lead-free assembly	
Pre Heat	Temperature Max $(T_{s(min)})$	150°C
	Temperature Max (T _{s(max)})	200°C
	Time (min to max) (t_s)	60 – 180 secs
Average ran	3°C/second max	
	3°C/second max	
Reflow	Temperature (T _L) (Liquidus)	217°C
Reliow	Time (min to max) (t_L)	60 – 150 seconds
Peak Temp	260°C	
Time within	20 – 40 seconds	
Ramp-dow	6°C/second max	
Time 25°C to peak Temperature (T _P)		8 minutes max.
Do not exce	260°C	

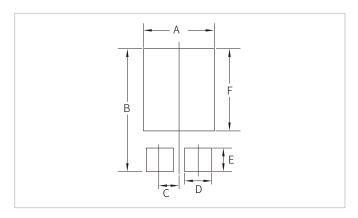


TO-277B PACKAGE INFORMATION



Ref.	Millimeters		Inches	
ici.	Min.	Max.	Min.	Max.
А	4.00	4.60	0.157	0.181
В	6.20	6.80	0.244	0.268
С	5.50	6.00	0.216	0.236
D	0.25	0.40	0.010	0.016
Е	1.05	1.35	0.041	0.053
F	3.00	3.50	0.118	0.138
G	1.70	2.00	0.067	0.079
Н	4.20	4.50	0.165	0.177
I	3.52Nom		0.139Nom	
J	0.85	1.10	0.033	0.043
К	1.86Nom		0.073Nom	
L	0.80	1.00	0.031	0.039
М	1.10	1.40	0.043	0.055

RECOMMENDED PAD LAYOUT DIMENSIONS



Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
А	3.40	-	0.134	-
В	6.90		0.2	272
С	0.95		0.037	
D	1.30	-	0.051	-
Е	1.30	-	0.051	-
F	4.60	-	0.181	-

ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
TSP10200	TO-277B	5000PCS	13"



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By QR Code





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Machat

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