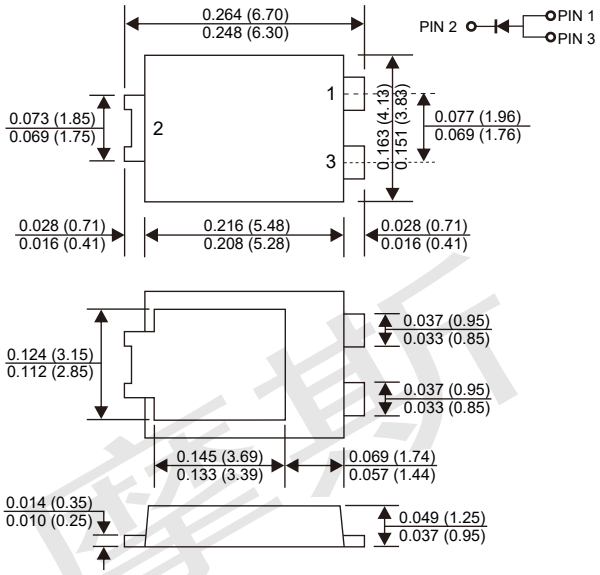
Schottky Barrier Rectifier
TSP6L60SP -P-01A 60V 6A

RoHS COMPLIANT

Features And Mechanical Data

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for over voltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering:260℃ MAX at 10 seconds, per JESD 22-B106 or MIL-STD-750,method 2026
- Case: JEDEC TO-277 molded plastic body

TO-277



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified. Single phase, half wave, 60HZ, resistive or inductive load. For capacitive load, derate current by 20%.

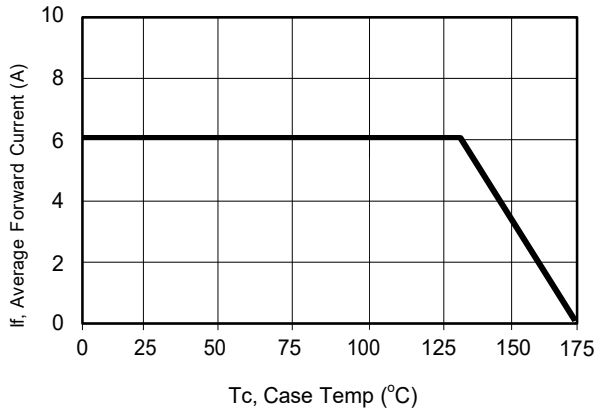
		Symbols	Min.	Typ.	Max.	Units
Type number			TSP6L60SP -P-01A			
Marking code			6L60SP			
Maximum recurrent peak reverse voltage		V_{RRM}	-	-	60	Volts
Maximum rms voltage		V_{RMS}	-	-	42	Volts
Maximum dc blocking voltage		V_{DC}	-	-	60	Volts
Maximum average forward rectified current. Lead length @ta(fig 1)		$I_{(AV)}$	-	-	6.0	Amp
Peak Forward Surge Current, 8.3 ms single half- sine-wave Superimposed on rated load (JEDEC method) (Rating of per diode)		I_{FSM}	-	-	100	Amp
Maximum instantaneous forward voltage at $I_{(AV)}$	1A @ T_A=25℃	V_F		0.39		Volts
	2A @ TA=25℃			0.42		
	6A @ TA=25℃			0.49	0.53	
	1A @ TA=125℃			0.29		
	2A @ TA=125℃			0.32		
	6A @ TA=125℃			0.41		
Maximum DC reverse current at rated DC blocking voltage per	Tj=25℃	I_R	-	12	50	uA
	Tj=100℃		-	-	15	mA
Typical thermal resistance Between junction and lead		$R_{\Theta JL}$	-	20	-	℃/W
Junction temperature		T_J	-40 to +175			℃
Storage temperature range		T_{STG}	-40 to +175			℃

Schottky Barrier Rectifier

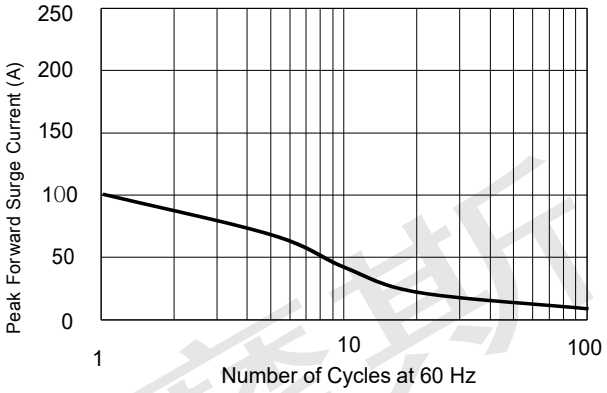
TSP6L60SP -P-01A 60V 6A

RoHS COMPLIANT

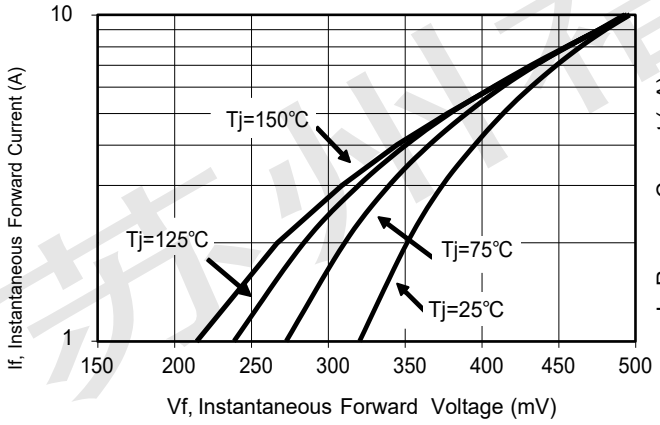
RATINGS AND CHARACTERISTICS CURVES



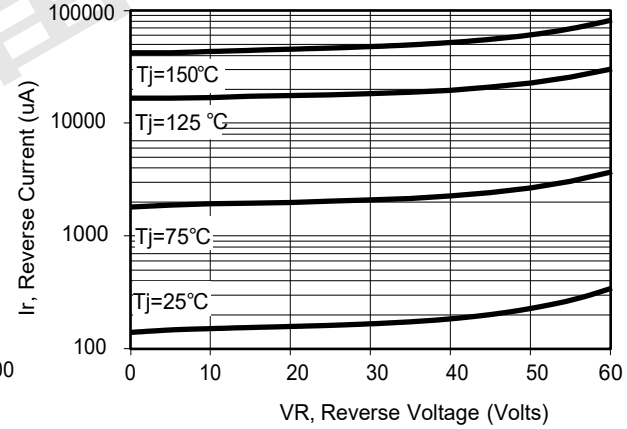
Current Derating, Case



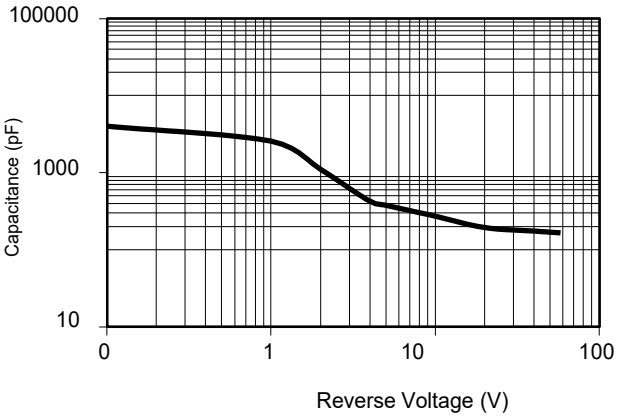
Maximum Repetitive Surge Current



Typical Forward Voltage



Typical Reverse Current



Typical Junction Capacitance