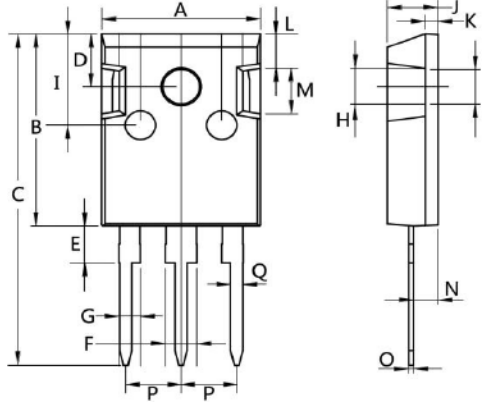


Schottky Rectifier

Primary characteristics		
Parameter	Value	Unit
Reverse voltage	60	V
Forward Current	40	A

Features

- **TO-247S** case for easy automatic insertion.
- Pb-free and **RoHS** compliant
- Low forwarder voltage
- High current capability
- High forward surge capability
- Low power losses, High efficiency
- Guarding for over voltage protection

Case dimensions									
									
TO-247S									
Unit	A	B	C	D	E	F	G	H	I
mm	15.5 ±0.5	20 ±0.5	34.5 ±1.0	5.5 ±0.5	4.0 ±0.5	3.0 ±0.5	2.1 -0.35 +0.40	3.5 ±0.5	10 ±1.0
Unit	J	K	L	M	N	O	P	Q	
mm	5.0 ±0.1	1.25 ±0.10	3.5 ±0.50	5.0 ±0.25	2.25 ±0.25	0.50 ±0.05	5.04 Typ.	1.24 ±0.06	

Maximum ratings (per leg, T _a = 25°C)				
Parameter	Symbol	Value	Unit	
Maximum repetitive peak reverse voltage	V _{RRM}	60	V	
Maximum RMS voltage	V _{RMS}	42		
Maximum DC blocking voltage	V _{DC}	60		
Maximum average forward rectified current	Per leg	20	A	
	Total	30		
Peak forward surge current, 8.3ms single half sine-wave	I _{FSM}	250		
Maximum reverse recovery time @ I _F =0.5A, I _R =1.0A, I _{RR} =0.25A	t _{rr}	25	ns	
Typical thermal resistance ¹⁾	R _{θJC}	2.0	°C/W	
Operating junction and storage temperature range	T _j , T _{STG}	-55 ~ 150	°C	

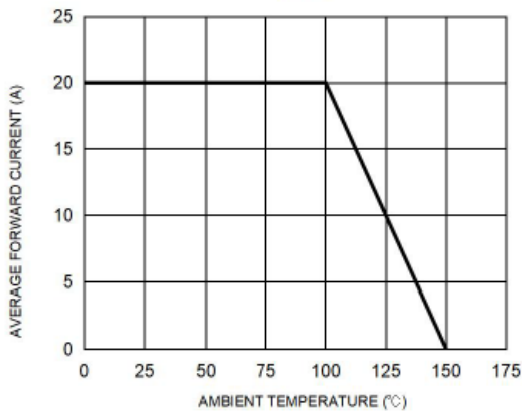
1) Thermal resistance from junction to case per leg mounted on heatsink

Electrical characteristics (per leg)

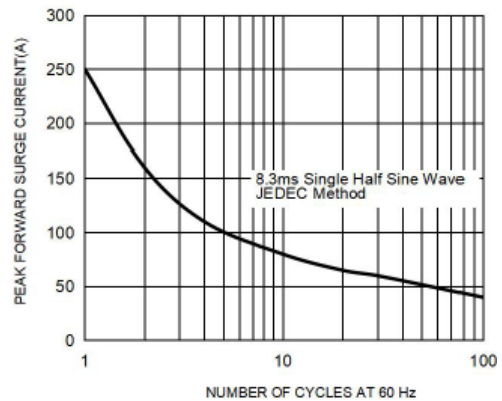
Parameter			Symbol	Value		Unit
Forward voltage drop ²⁾	I _F =5.0A	T _A =25°C	V _F	0.38	-	V
		T _A =125°C		0.28	-	
	I _F =10A	T _A =25°C		0.44	-	
		T _A =125°C		0.36	-	
	I _F =20A	T _A =25°C		0.53	0.60	
		T _A =125°C		0.49	-	
Maximum reverse current @V _R =60V		T _A =25°C	I _R	75	200	μA
		T _A =125°C		2.1	-	mA

2) Pulse test: 300μs pulse width, 1% duty cycle

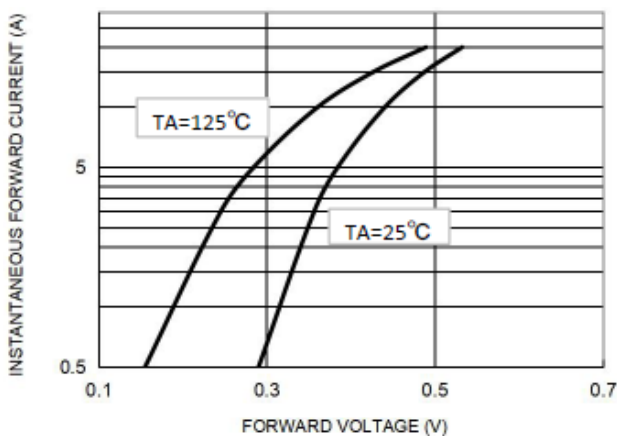
Maximum forward current derating curve



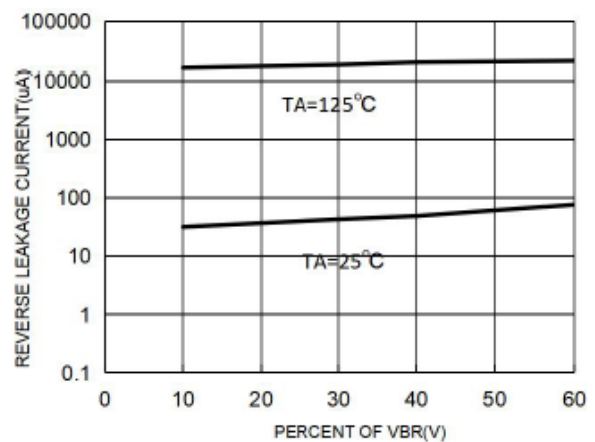
Maximum non-repetitive forward surge current per leg



Typical forward characteristics per leg



Typical reverse characteristics per leg



Ordering information			
Part Number	Package	Shipping Quantity	Dimensions
SRT40L60PT-PTS	TO-247S	30 pcs / tube 600 pcs / small box 2400 pcs / big box	---

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