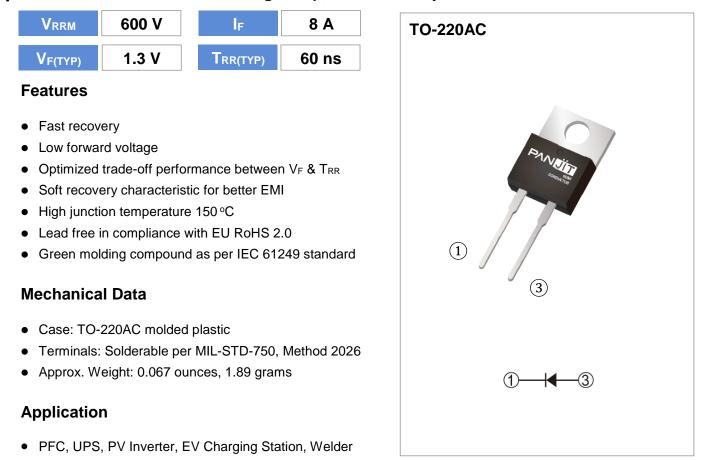


Optima Diode - Low forward voltage drop, Fast Recovery Diode



Maximum Ratings and Thermal Characteristics ($T_c = 25$ °C unless otherwise specified)

PARAMETER	SYMBOL	LIMIT	UNITS
Repetitive Peak Reverse Voltage	Vrrm	600	V
DC Blocking Voltage	V _{DC}	600	V
Diode Forward Current @ Tc=133°C	I _{F(AV)}	8	А
Repetitive Peak Surge Current tp = 8.3 ms, sine-wave, D=0.5	IFRM	16	A
Peak Forward Surge Current <i>tp</i> = 8.3 ms, single half sine-wave	I _{FSM}	95	A
Maximum Power Dissipation	Ptotal	69	W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C



Electrical Characteristics ($T_c = 25$ °C unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward voltage drop	VF	I _F = 8 A, T _J = 25 °C	-	1.3	1.8	
		I _F = 8 A, T _J = 125 °C	-	1.2	-	V
Reverse leakage current	I _R	$V_R = 600 \text{ V}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	100	μA
		V _R = 600 V, T _J = 125 °C	-	-	500	μA
Reverse recovery time	T _{RR}	I _F =0.5A, I _R =1A,				
		I _{RR} =0.25A	-	-	40	ns
		T _J = 25 °C				
		$I_F = 1 \text{ A}, V_R = 30 \text{ V},$				
		di/dt = 300 A/µs,	-	-	35	ns
		T _J = 25 °C				
Reverse recovery time	T _{RR}	$I_F = 8 A, V_R = 400 V,$	-	60	90	ns
Peak recovery current	I _{RRM}		-	4.5	-	А
Reverse recovery charge	Q _{RR}	di/dt = 300 A/µs,	-	160	-	nC
Softness factor = tb / ta	S	T _J = 25 °C	-	1.7	-	
Reverse recovery time	T _{RR}	$I_F = 8 \text{ A}, V_R = 400 \text{ V},$ di/dt = 300 A/µs,	-	85	-	ns
Peak recovery current	I _{RRM}		-	8	-	А
Reverse recovery charge	Q _{RR}		-	440	-	nC
Softness factor = tb / ta	S	T」= 125 °C	-	1.05	-	
Thermal Resistance	Rejc		-	-	1.8	°C/W



PSDP0860L1



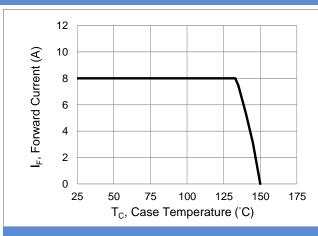


Fig.1 Forward Current Derating Curve

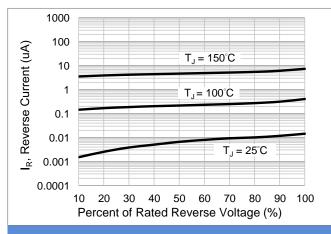
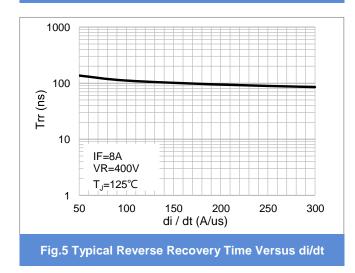


Fig.3 Typical Reverse Characteristics



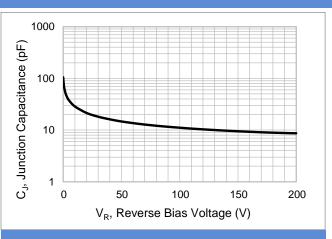


Fig.2 Typical Junction Capacitance

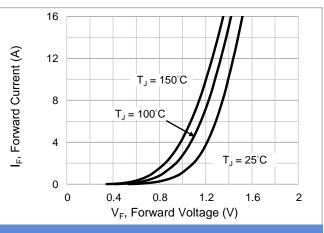
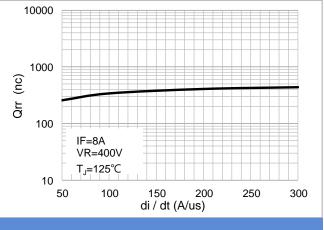


Fig.4 Typical Forward Characteristics

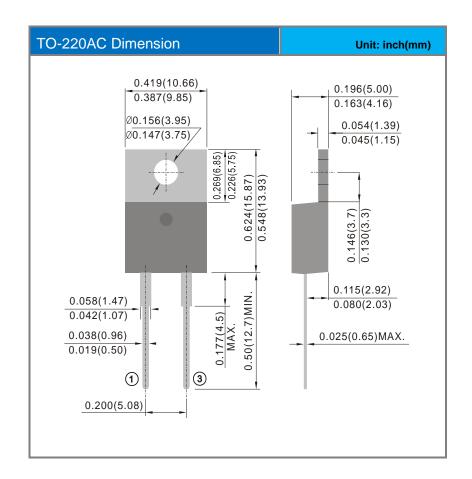




Product and Packing Information

Part No.	Package Type	Packing Type	Marking		
PSDP0860L1	TO-220AC	50pcs / Tube	SDP0860L1		

Packaging Information





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