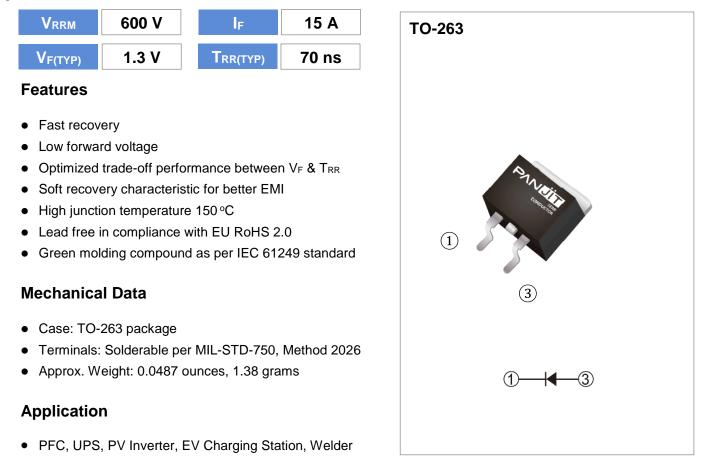


Optima Diode - Low forward voltage drop, Fast Recovery Diode



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=125°C	I _{F(AV)}	15	А
Repetitive Peak Surge Current tp = 8.3 ms, sine-wave, D=0.5	IFRM	30	A
Peak Forward Surge Current <i>tp</i> = 8.3 ms, single half sine-wave	I _{FSM}	180	A
Maximum Power Dissipation	Ptotal	89	W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C





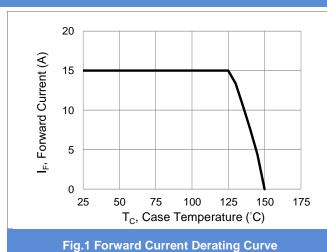
Electrical Characteristics ($T_c = 25$ °C unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward voltage drop	VF	I _F = 15 A, T _J = 25 °C	-	1.3	1.8	V	
		I⊧ = 15 A, T」 = 125 °C	-	1.2	-		
Reverse leakage current	I _R	V _R = 600 V, T _J = 25 °C	-	-	100	μA	
		$V_R = 600 \text{ V}, T_J = 125 ^{\circ}\text{C}$	-	-	500	μA	
Reverse recovery time	Ŧ	I _F =0.5A, I _R =1A, I _{RR} =0.25A T _J = 25 ⁰C	-	-	45	ns	
	T _{RR}	$I_F = 1 \text{ A}, V_R = 30 \text{ V},$ di/dt = 300 A/µs, $T_J = 25 \text{ °C}$	-	-	35	ns	
Reverse recovery time	T _{RR}		-	70	110	ns	
Peak recovery current	IRRM	$I_F = 15 \text{ A}, V_R = 400 \text{ V},$	-	5.4	-	А	
Reverse recovery charge	Q _{RR}	di/dt = 300 A/µs, TJ = 25 °C	-	250	-	nC	
Softness factor = tb / ta	S	1J=25°C	-	1.65	-		
Reverse recovery time	T _{RR}		-	100	-	ns	
Peak recovery current	IRRM	$I_F = 15 \text{ A}, V_R = 400 \text{ V},$	-	10.7	-	А	
Reverse recovery charge	Q _{RR}	di/dt = 300 A/µs,	-	730	-	nC	
Softness factor = tb / ta	S	T」= 125 °C	-	0.75	-		
Thermal Resistance	Rejc		-	-	1.4	°C/W	
	R _{θJA}		-	-	58	°C/W	



PSDB1560L1







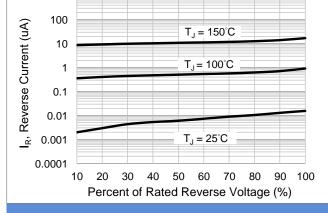
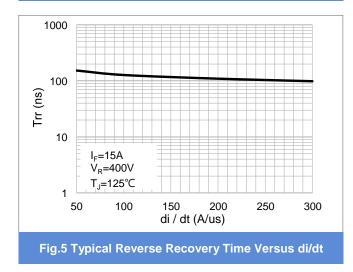


Fig.3 Typical Reverse Characteristics



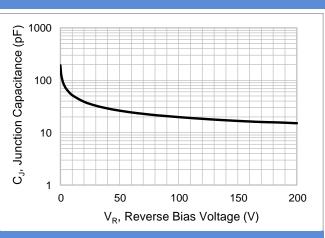


Fig.2 Typical Junction Capacitance

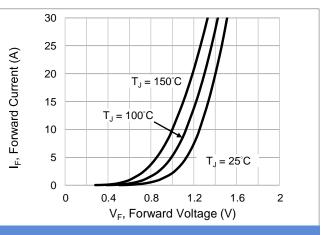
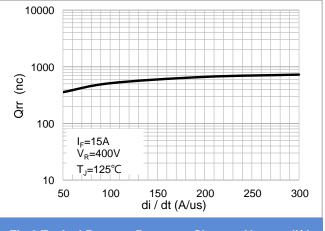


Fig.4 Typical Forward Characteristics

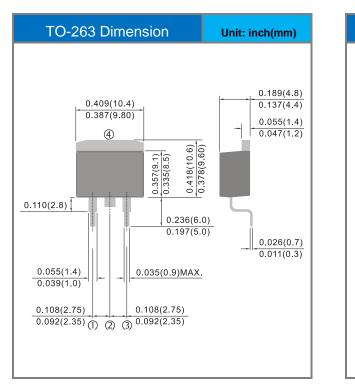


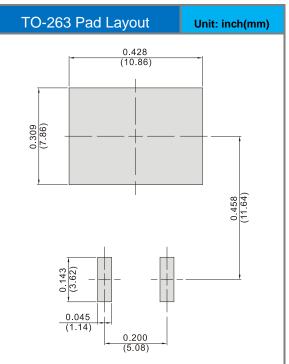


Product and Packing Information

Part No.	Package Type	Packing Type	Marking
	60L1 TO-263 50pcs / Tube 800pcs / Reel		
PSDB1560L1		800pcs / Reel	SDB1560L1

Packaging Information & Mounting Pad Layout







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