

TECHNICAL DATA DATA SHEET 4783, REV. C

SILICON SCHOTTKY RECTIFIER Ultra Low Reverse Leakage 100°C Operating Temperature

Applications:

• Switching Power Supply • Converters • Free-Wheeling Diodes • Polarity Protection Diode

Features:

- Ultra low Reverse Leakage Current
- Soft Reverse Recovery at Low and High Temperature
- Very Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capacity
- Guard Ring for Enhanced Durability and Long Term Reliability
- Guaranteed Reverse Avalanche Characteristics

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V _{RWM}	-	15	V
Max. Average Forward Current	I _{F(AV)} 50% duty cycle, rectangular wave form (Single/Doubler)		15	A
Max. Average Forward Current	I _{F(AV)}	50% duty cycle, rectangular wave form (Common Cathode/Common Anode)	15	A
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine wave	75	A
Max. Junction Temperature	TJ	-	-65 to +100	°C
Max. Storage Temperature	T _{stg}	-	-65 to +100	°C
Thermal Resistance(per leg)	$R_{ ext{ heta}JC}$	-	2.82	°C/W

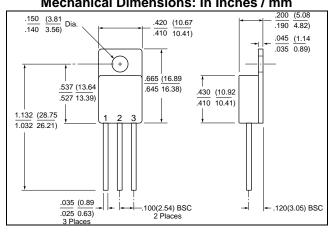
Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V _{F1}	@ 15A, Pulse, T _J = 25 °C	0.50	V
	V _{F2}	@ 15A, Pulse, T _J = 125 °C	0.46	V
Max. Reverse Current	I _{R1}	$@V_R = 15V$, Pulse,	7	mA
		$T_J = 25 \ ^{\circ}C$		
	I _{R2}	$@V_R = 15V$, Pulse,	340	mA
		T _J = 100 °C		
Max. Junction Capacitance	CT	@V _R = 5V, T _C = 25 °C	1200	pF
		f _{SIG} = 1MHz,		
		$V_{SIG} = 50 \text{mV} (\text{p-p})$		



SHD126268 SHD126268D SHD126268N SHD126268P

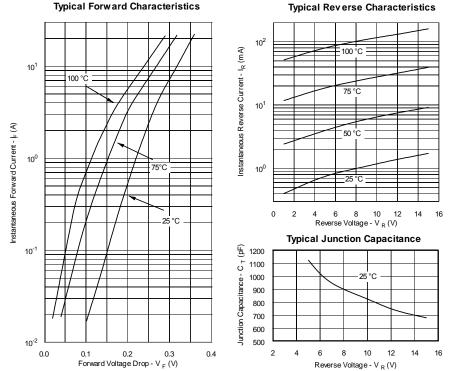
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Mechanical Dimensions: In Inches / mm



DEVICE TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE
COMMON CATHODE (P)	ANODE 1	COMMON CATHODE	ANODE 2
COMMON ANODE (N)	CATHODE 1	COMMON ANODE	CATHODE 2
DOUBLER (D)	ANODE	CATHODE / ANODE	CATHODE



Typical Reverse Characteristics



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