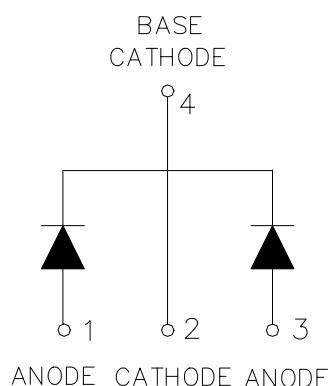
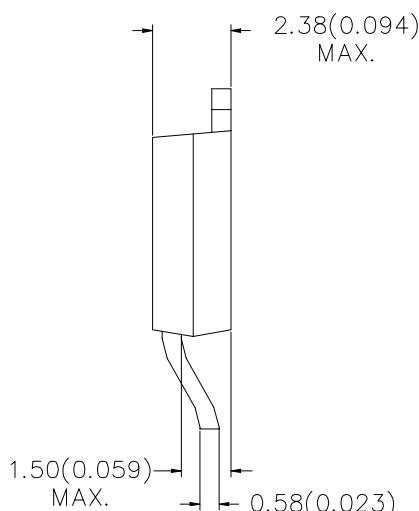
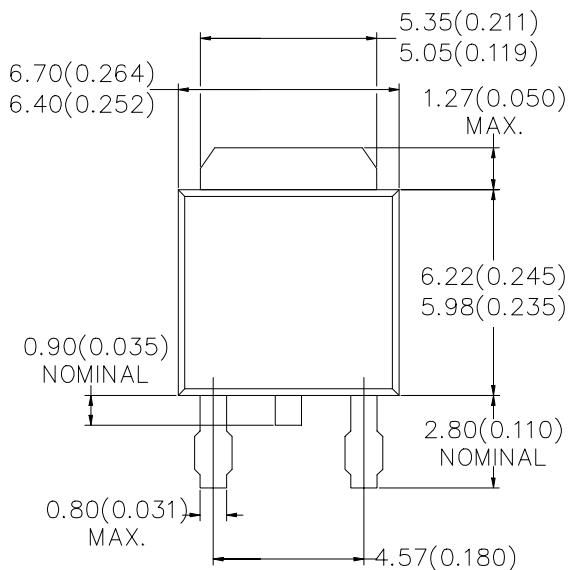
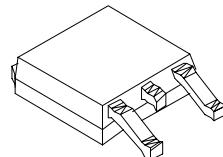


**TECHNICAL DATA
DATA SHEET****CSHD6-60C SCHOTTKY RECTIFIER****Applications:**

- Switching power supply • Converters • Free-Wheeling diodes • Reverse battery protection
- Battery charging

Features:

- Popular D-PAK outline
- Small foot print, surface mountable
- Low forward voltage drop
- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability

Mechanical Dimensions: In Inches / mm**D-PAK**

SEMICONDUCTOR
Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	60	V
Max. Average Forward Current	$I_{F(AV)}$	50% duty cycle @ $T_c = 120^\circ C$, rectangular wave form	6.0	A
Max. Peak One Cycle Non-Repetitive Surge Current	I_{FSM}	8.3 ms, half Sine pulse	60	A
Peak Repetitive Reverse Surge Current	I_{RRM}		1.0	A

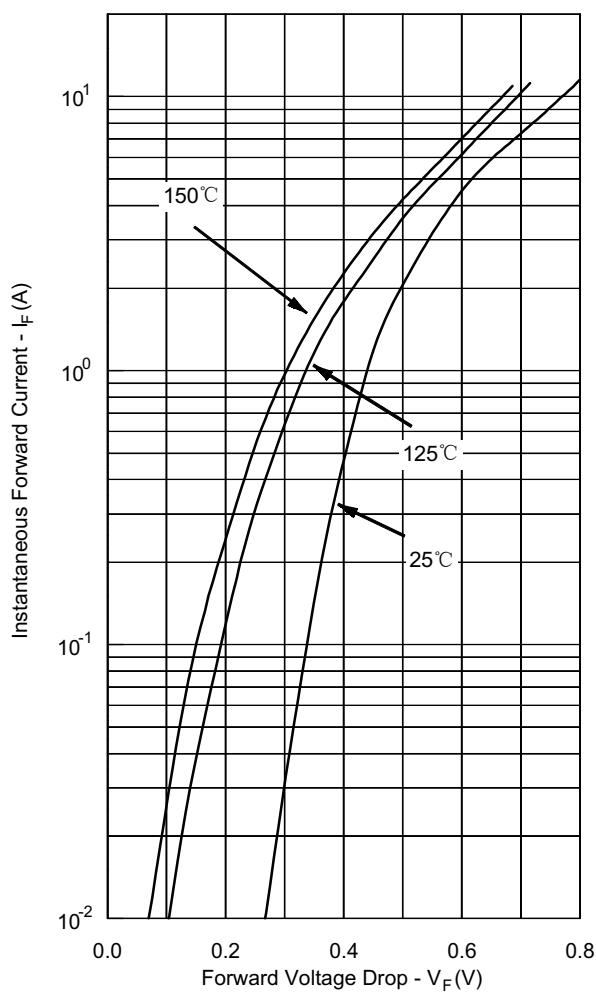
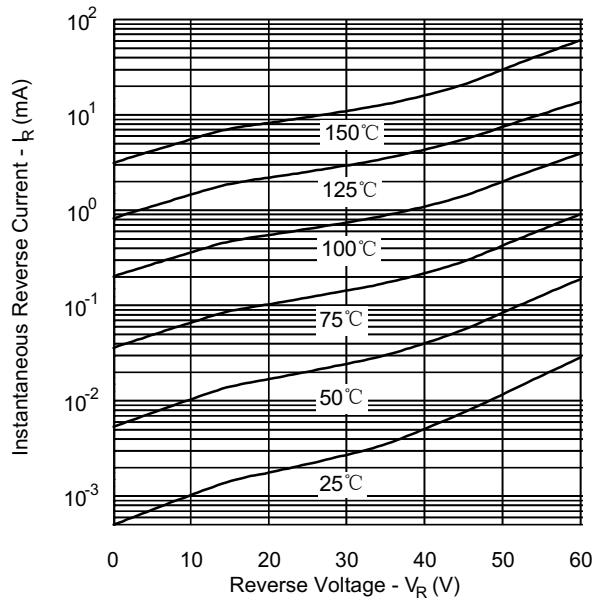
Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop (per leg)*	V_{F1}	@ 3 A, Pulse, $T_J = 25^\circ C$ @ 6 A, Pulse, $T_J = 25^\circ C$	0.65 0.90	V
	V_{F2}	@ 3 A, Pulse, $T_J = 125^\circ C$ @ 6 A, Pulse, $T_J = 125^\circ C$	0.59 0.85	V
Max. Reverse Current (per leg)*	I_{R1}	@ V_R = Rated V_R , Pulse, $T_J = 25^\circ C$	0.03	mA
	I_{R2}	@ V_R = Rated V_R , Pulse, $T_J = 125^\circ C$	10	mA
Max. Voltage Rate of Change	dv/dt	-	10,000	V/ μ s

* Pulse Width < 300 μ s, Duty Cycle < 2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-65 to +150	°C
Max. Storage Temperature	T_{stg}	-	-65 to +150	°C
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	DC operation	3.5	°C/W
Approximate Weight	wt	-	0.3	g
Case Style		D – PAK (Similar to TO-252AA)		

Typical Forward Characteristics

Typical Reverse Characteristics

Typical Junction Capacitance
