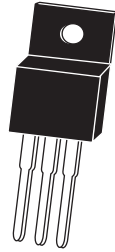


CRSH16D-40FP  
 CRSH16D-60FP  
 CRSH16D-100FP

**SILICON SCHOTTKY RECTIFIERS  
 DUAL, COMMON CATHODE  
 16 AMP, 40 THRU 100 VOLTS**



**FULL  
 PAK**

**TO-220FP CASE**

**Central™**  
**Semiconductor Corp.**

**FEATURES:**

- HIGH RELIABILITY
- HIGH CURRENT CAPABILITY
- UL FLAMMABILITY CLASSIFICATION 94V-0
- LOW POWER LOSS, HIGH EFFICIENCY
- LOW FORWARD VOLTAGE
- HIGH SURGE CAPACITY
- SUPERIOR LOT TO LOT CONSISTENCY
- HIGH VOLTAGE

**MARKING CODE: FULL PART NUMBER**

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CRSH16D-40FP Series types are Silicon Schottky Rectifiers designed for fast switching applications requiring a low forward voltage drop.

**MAXIMUM RATINGS:** ( $T_C=25^\circ\text{C}$  unless otherwise noted)

	SYMBOL	CRSH16D	CRSH16D	CRSH16D	UNITS
		<u>-40FP</u>	<u>-60FP</u>	<u>-100FP</u>	
Peak Repetitive Reverse Voltage	$V_{RRM}$	40	60	100	V
DC Blocking Voltage	$V_R$	40	60	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	26	42	80	V
Average Forward Current ( $T_C=90^\circ\text{C}$ )	$I_O$		16		A
Peak Forward Surge Current (8.3ms)	$I_{FSM}$		150		A
Critical Rate of Rise of Reverse Voltage	$dv/dt$		10,000		V/ $\mu\text{s}$
Operating and Storage					
Junction Temperature	$T_J, T_{stg}$		-65 to +150		$^\circ\text{C}$
Typical Thermal Resistance	$\theta_{JC}$		4.0		$^\circ\text{C/W}$
Typical Thermal Resistance	$\theta_{JA}$		60		$^\circ\text{C/W}$

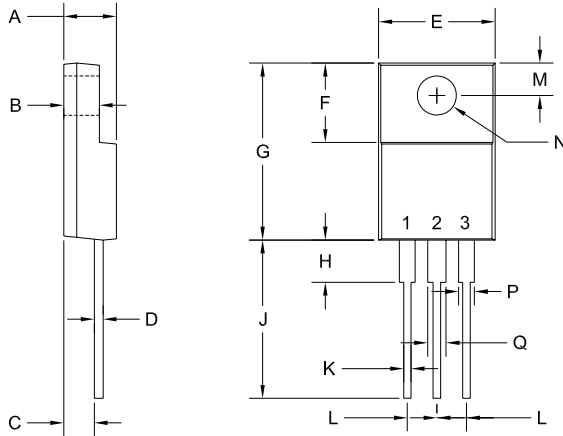
**ELECTRICAL CHARACTERISTICS PER DIODE:** ( $T_C=25^\circ\text{C}$  unless otherwise noted)

SYMBOL	TEST CONDITIONS	CRSH16D		CRSH16D		CRSH16D		UNITS
		<u>-40FP</u>		<u>-60FP</u>		<u>-100FP</u>		
		TYP	MAX	TYP	MAX	TYP	MAX	
$I_R$	$V_R=\text{Rated } V_{RRM}$	200		200		200		$\mu\text{A}$
$I_R$	$V_R=\text{Rated } V_{RRM}, T_C=125^\circ\text{C}$	15		15		15		mA
$V_F$	$I_F=8.0\text{A}$	0.65		0.75		0.85		V
$V_F$	$I_F=8.0\text{A}, T_C=125^\circ\text{C}$	0.57		0.65		0.75		V
$V_F$	$I_F=16\text{A}$	0.84		0.95		1.10		V
$V_F$	$I_F=16\text{A}, T_C=125^\circ\text{C}$	0.72		0.85		1.00		V
$C_J$	$V_R=4.0\text{V}, f=1.0\text{MHz}$	300		300		300		pF

R1 (25-January 2006)

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DUAL, COMMON CATHODE  
16 AMP, 40 THRU 100 VOLTS**

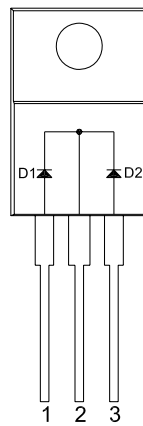
**TO-220FP CASE - MECHANICAL OUTLINE**



R0

SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.165	0.189	4.20	4.80
B	0.114	0.130	2.90	3.30
C	0.098	0.114	2.50	2.90
D	-	0.032	-	0.80
E	0.382	0.406	9.70	10.30
F	0.248	0.272	6.30	6.90
G	0.583	0.606	14.80	15.40
H	-	0.161	-	4.10
J	0.512	0.543	13.00	13.80
K	0.012	0.035	0.30	0.90
L	0.100		2.55	
M	0.100	0.112	2.55	2.85
N (DIA)	0.118	0.134	3.00	3.40
P	0.039	0.055	1.00	1.40
Q	0.055	0.071	1.40	1.80

TO-220FP Rectifier(REV: R0)



**LEAD CODE:**

- 1) ANODE D1
- 2) CATHODE D1,D2
- 3) ANODE D2

R1 (25-January 2006)