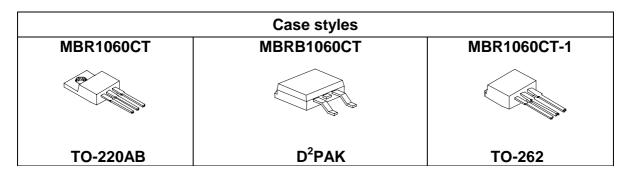
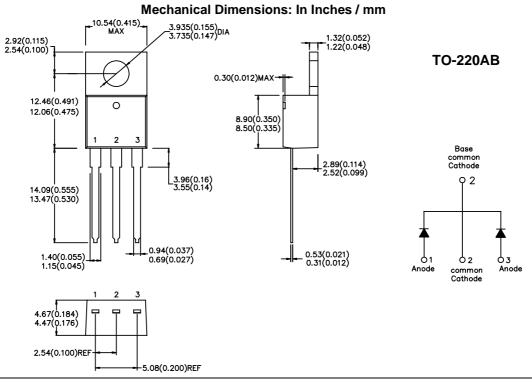
Technical Data Data Sheet 2935, Rev.B

MBR1060CT/MBRB1060CT-1 SCHOTTKY RECTIFIER

Applications:

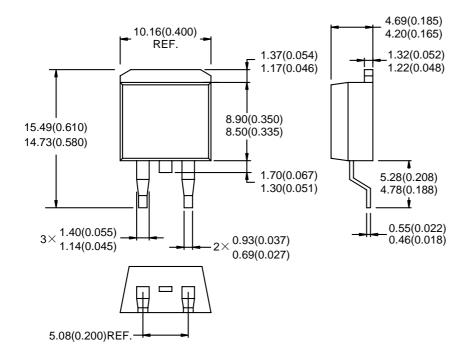
- Switching power supply Converters Free-Wheeling diodes Reverse battery protection Features:
 - 150 °C T_J operation
 - Center tap configuration
 - Low forward voltage drop
 - High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
 - High frequency operation
 - · Guard ring for enhanced ruggedness and long term reliability

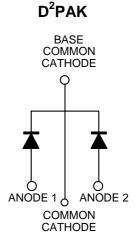


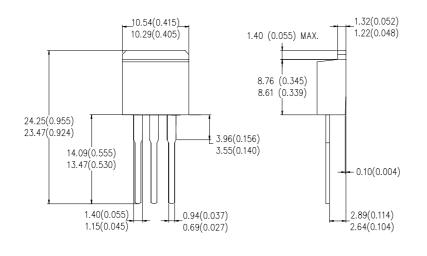


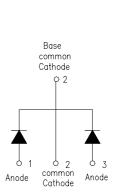
- 221 West Industry Court ☐ Deer Park, NY 11729-4681 ☐ (631) 586-7600 FAX (631) 242-9798
 - World Wide Web Site http://www.sensitron.com E-Mail Address sales@sensitron.com •

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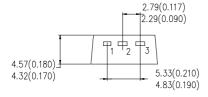








TO-262



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Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	VRWM	-	60	
				V
Max. Average Forward	I _{F(AV)}	50% duty cycle @T _C = 154°C, rectangular wave form	10	Α
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	125	А

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@ 5A, Pulse, T _J = 25 °C	0.80	V
(per leg) *		@ 10A, Pulse, T _J = 25 °C	0.95	
	V_{F2}	@ 5A, Pulse, T _J = 125 °C	0.65	V
		@ 10A, Pulse, T _J = 125 °C	0.90	
Max. Reverse Current	I _{R1}	$@V_R = rated V_R$	1.0	mA
(per leg) *		T _J = 25 °C		
	I_{R2}	$@V_R = rated V_R$	15	mA
		T _J = 125 °C		
Max. Junction Capacitance	C_T	$@V_R = 5V, T_C = 25 ^{\circ}C$	220	pF
(per leg)		$f_{SIG} = 1MHz$		
Typical Series Inductance	Ls	Measured lead to lead 5 mm from	8.0	nH
(per leg)		package body		
Max. Voltage Rate of Change	dv/dt	-	10,000	V/μs

^{*} Pulse Width < 300µs, Duty Cycle <2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-55 to +150	°C
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	DC operation	2.0	°C/W
Maximum Thermal Resistance, Case to Heat Sink	$R_{\theta JA}$	DC operation	1.0	°C/W
Approximate Weight	wt	-	2	g
Mounting Torque	T _M	-	6(Min.) 12(Max.)	Kg-cm
Case Style	TO-220AB D ² PAK TO-262			

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SENSITRON SEMICONDUCTOR

MBR1060CT MBRB1060CT MBR1060CT-1

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