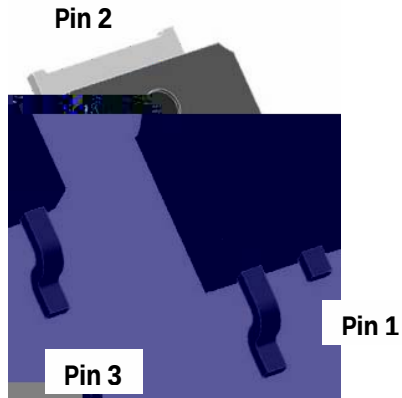




Schottky Diodes

Features

- High frequency operation
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Part no. with suffix "Q" means AEC-Q101 qualified

Typical Applications

Typical applications are in switching power supplies, converters, automotive, freewheeling diodes, and reverse battery protection.

Mechanical Data

- **Package:** TO-252

Molding compound: Maximum T_a=250°C, unless otherwise specified



PARAMETER	SYMBOL	UNIT	MBR1060CDQ
Device marking code	-	-	MBR1060CD
Repetitive peak reverse voltage	V_{RRM}	V	60
Average Rectified Output Current @60Hz -sine wave $T_C=100$	I_O	A	10
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, $T_a=25$	I_{FSM}	A	120
Current Squared Time @1ms≤t≤8.3ms $T_J=25$	I^2t	A ² s	60
Storage Temperature	T_{stg}		-55 ~ +150
Junction Temperature	T_J		-55 ~ +150

■Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Typ	Max
-----------	--------	------	-----------------	-----	-----

Instantaneous forward voltage per diode V_F V $I_F=5A$ T_J Instantaneous reverse current per diode I

	R	mA	$V_R=60V$	$T_J=25$	-	0.1
				$T_J=125$	-	20

■Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER		SYMBOL	UNIT	MBR1060CDQ
Typical thermal resistance per diode	Between junction and case	R _{θJ-C}	/W	5





■Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)
--------------	----------------



MBR1060CDQ

Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with automotive electronics, are not designed for use in medical, lifesaving, lifesustaining, or military, Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website [http:// www.21yangjie.com](http://www.21yangjie.com) , or consult your nearest Yangjie's sales office for further assistance.