# **MBR2060CS**

### Schottky Diodes Reverse Voltage- 60V Forward current-20A

#### **Features**

Schottky chip

Ldeal for surface mounted applications

Low forward voltage drop, Low power loss, high efficiency

Plastic Case Material has UL Flammability

TO-263

#### Mechanical Data

Package: TO-263

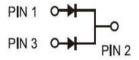
Terminals:Tin Plated leads, solderable per

Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

**ROHS-compliant** 



### Maximum Ratings (Ta=25℃ Unless otherwise)

Type Number	SYMBOL	MBR2060CS	Umit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	60	V
Maximum RMS Voltage	V <sub>RMS</sub>	42	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	60	V
Maximum Average Forward Rectified Current at TL = 100 ℃	IO <sub>(AV)</sub>	20.0	А
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	— IFSM —	130.0	А
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃		260.0	А
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	I <sup>2</sup> t	70.13	A <sup>2</sup> S
Maximum Forward Voltage at 10.0A DC TA = $25^{\circ}$ C	V <sub>FM</sub>	0.75	V
Maximum Reverse Current $TA = 25^{\circ}C$	IR	0.1	mA
at Rated DC Blocking Voltage TA = 110℃		20	mA
Typical Thermal Resistance Between junction to board	R <sub>QJB</sub>	50.0	°C/W
	R <sub>QJC</sub>	2.0	
Operating Junction Temperature Range	T <sub>J</sub>	-55to+150	${\mathbb C}$
Storage Temperature Range	T <sub>STG</sub>	-55to+150	${\mathbb C}$



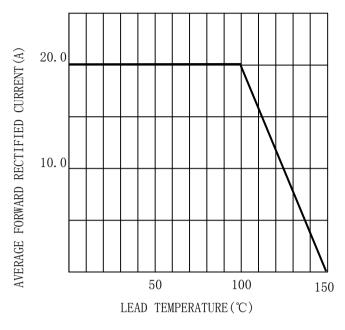


FIG. 2TYPICAL FORWARD CHARACTERISTICS

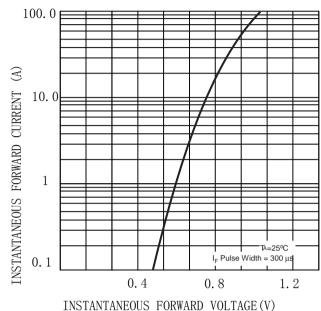


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

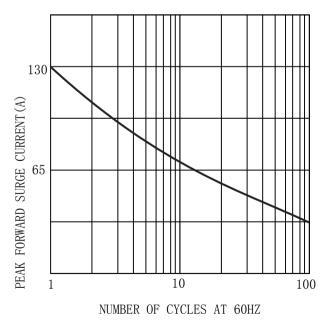
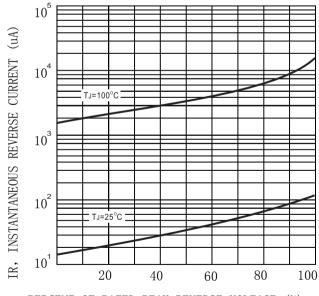


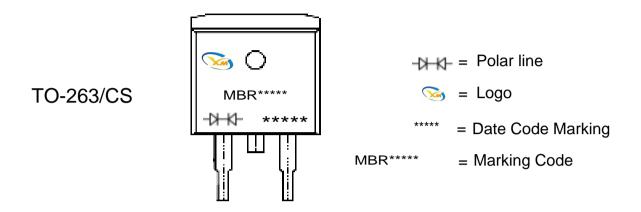
FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



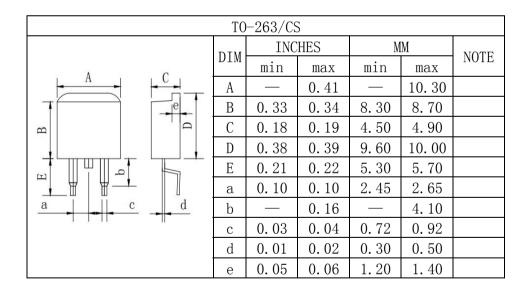
PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



### MARKING INFORMATION



# Package Outline Dimensions millimeters





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