



# MBR30100FCTS THRU MBR30200FCTS

## Schottky Diodes

### Features

" +LJK IUHTXHQF\ RSHUDWLRQ  
 QHVV DQG ORQJ WHUP UH  
 " 6ROGHU GLS f & PD[ V SHU -(6' %

### Typical Applications

7\SLFDO DSSOLFDWLRQV DUH LQ VZLWFKLQJ S  
 IUHHZKHHOLQJ GLRGHV DQG UHYHUVH EDWW

### Mechanical Data

" Package ,72 \$ %  
 0ROGLQJ FRPSR\QG PHH\WPPDELOLW\  
 UDWLQJ 5R+6 FRPSOLDQW  
 " Terminals 7LQ SODWHG OHDGV VROGHUDEOH S  
 DQG -(6' %  
 " Polarity \$V PDUNHG

### Maximum Ratings

PARAMETER	UNIT	MBR30100FCTS	MBR30150FCTS	MBR30200FCTS
Repetitive Peak Reverse Voltage	VRRM V	100	150	200
Average Rectified Output Current 460Hz sine wave $\frac{1}{2}$ R-load $\frac{1}{2}$ T <sub>10</sub> +	A	2	3	4
Surge Current 100ms duty cycle	AS	60	90	120
Reverse Leakage Current	IR V=0V	100	150	200

### Electrical Characteristics

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MBR30100FCTS	MBR30150FCTS	MBR30200FCTS
Forward Voltage	V <sub>F</sub>	V	I <sub>F</sub> = 1A, V <sub>R</sub> = 0V	1.0	1.1	1.2
Reverse Leakage Current	I <sub>R</sub>	μA	V <sub>F</sub> = 0V, V <sub>R</sub> = 200V	100	150	200
Dynamic Resistance	r <sub>d</sub>	Ω	I <sub>F</sub> = 1A, V <sub>R</sub> = 0V	10	15	20

0D[LPXP ' & UHYHUVH :50 UHQW  
 DW UDWHG ' & EORFNLQJ YROWDJH SH  
 GLRGH



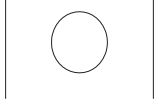
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Thermal Characteristics    7D    8 Q O H V V   R W K H U   Å L V H   V S H F L I L H G

PARAMETER	SYMBOL	UNIT	MBR30100FCTS	MBR30150FCTS
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v2XWOLQH 'LPHQVLRQV



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## Disclaimer

7KH LQIRUPDWLRQ V GHVFHQWV LQ WKH 1DHO 1KRXF HDUHQO ZHF (HQFFOVRUR QLF /VHG UHV  
ULJKW WR PDNLWKRDXW IRVLSH FIIW RIVSLRQG R FWWV GLV SPSDURYGHKUHUGILDEWQGLV L JQQ F  
RU RWKHUZLVH

7KH SURGXFWQLVGHV IJHGH WR EH HXWIRGZLWQK R HG XQSRHQW RU GHYLFHWWKQG Q  
HTXLSPHQW RU GHYLFHV ZKLFK UHTXLW KHKE DIO IZLWQL RQ XDHGG DEHG WDW\ DQG G DQJHU  
PHGLFDO LQVWUXQMSRUWHDQWLRQHUTRXLSPH RDXFKLHQ U UHDFWRHU FFRQWURROOHVV DQ  
GHYLFHV <DQJMLHVRV DQK BQH DQVXRLOV VARRWHOSRELVQLEWHVROVDLQJGIDRPPJMMFK LP  
RI VDOH

7KLV SXEOLFDFWLRQ SVXSSHUW DGHV LQURQV DQVSLRQ LSGHYRUR XDG GLWLRQDO LQWRUPDWLR  
KWV [ESZ](#) \DQJMLHRFRFRQVXOW \RXU QHDUHVW <DQJMLVHMVQVDFHOHV RILFH IRU IXUW