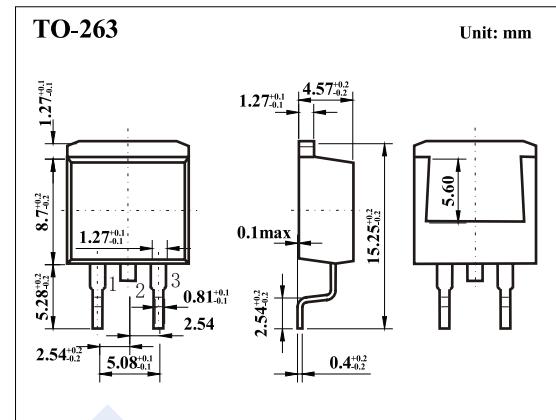
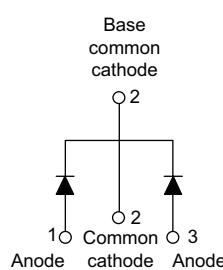


## Schottky Rectifiers

### MBR2035CS ~ MBR20200CS (KBR2035CS ~ KBR20200CS)

#### ■ Features

- Forward current 20A
- Reverse voltage 35-200V
- Low reverse leakage
- High forward surge capability



Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	MBR20 35CS	MBR20 45CS	MBR20 50CS	MBR20 60CS	MBR20 100CS	MBR20 200CS	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	35	45	50	60	100	200	V
Maximum RMS voltage	V <sub>RMS</sub>	24	31	35	42	72	140	
Maximum DC Blocking Voltage	V <sub>DC</sub>	35	45	50	60	100	200	
Maximum average forward rectified current		I <sub>F(AV)</sub>		20 10 (per leg)				A
Peak forward surge current 8.3ms single half sine-wave		I <sub>FSM</sub>		150				
Maximum forward voltage at I <sub>F</sub> =10.0A T <sub>A</sub> = 25°C T <sub>A</sub> = 100°C	V <sub>F</sub>	0.60 0.54		0.80 0.75	0.85 0.75	0.99 0.87		V
Maximum DC reverse current at rated DC blocking voltage T <sub>A</sub> = 25°C T <sub>A</sub> = 125°C	I <sub>R</sub>	0.1 50		0.15 150		1.0 50		mA
Typical junction capacitance	C <sub>j</sub>	400		320				pF
Typical thermal resistance V <sub>R</sub> = 4.0V, f = 1MHz MAX.	R <sub>thJC</sub>		1.0		2.0			°C/W
Junction Temperature	T <sub>j</sub>		150					°C
Storage Temperature	T <sub>stg</sub>		-55 to +150					

## Schottky Rectifiers

### MBR2035CS ~ MBR20200CS (KBR2035CS ~ KBR20200CS)

#### ■ Typical Characteristics

FIG.1- FORWARD CURRENT DERATING CURVE

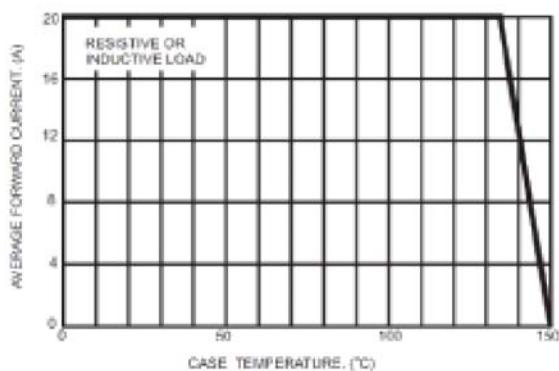


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

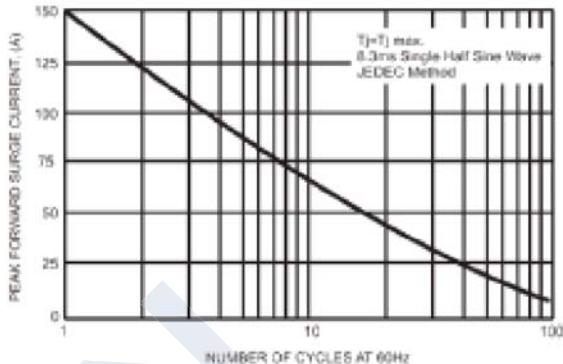


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

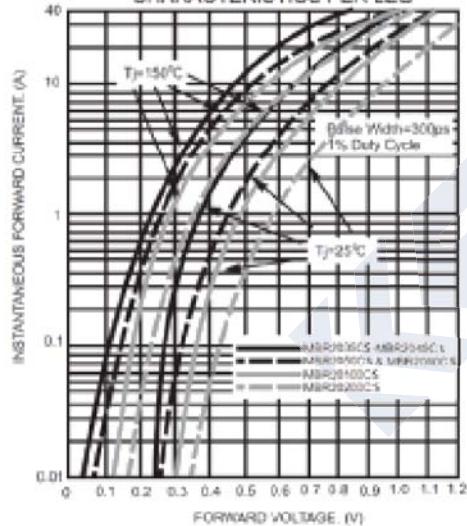


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER LEG

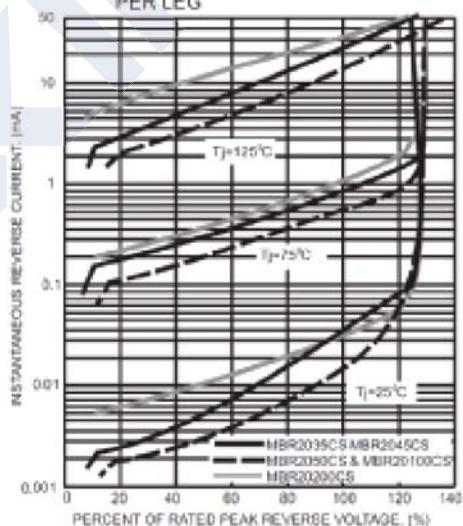


FIG.5- TYPICAL JUNCTION CAPACITANCE PER LEG

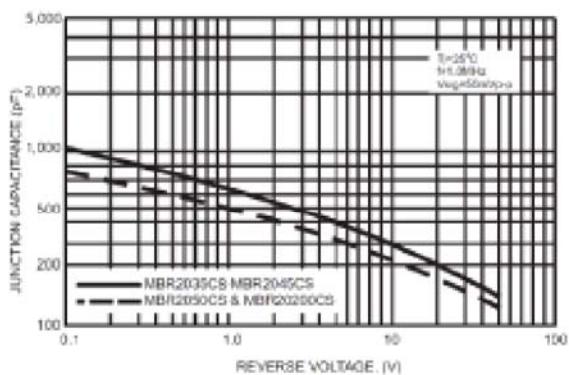


FIG.6- TYPICAL TRANSIENT THERMAL IMPEDANCE PER LEG

