

VOLTAGE	40 to 200 Volts
CURRENT	10 Amperes

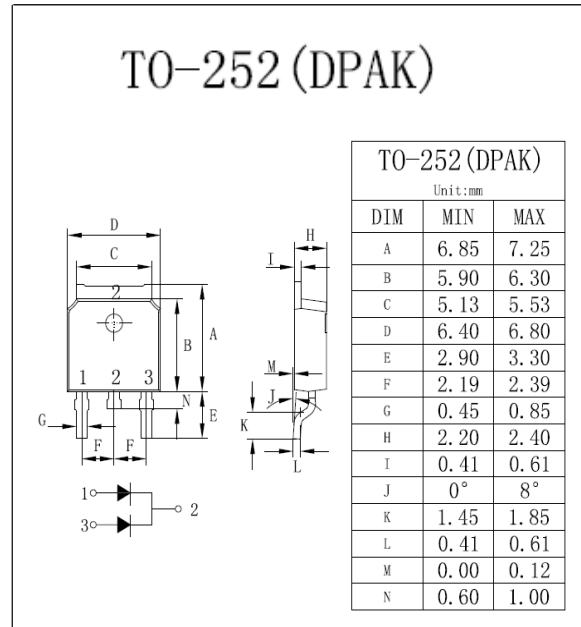
## SCHOTTKY BARRIER RECTIFIERS

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For through hole applications
- Low profile package
- Built-in strain relief
- Low power loss, High efficiency
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Lead free in comply with EU RoHS

### MECHANICAL DATA

- Case: TO-252 molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marking



### MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	MBR 1040CD	MBR 1045CD	MBR 1050CD	MBR 1060CD	MBR 1080CD	MBR 1090CD	MBR 10100CD	MBR 10150CD	MBR 10200CD	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	$V_{RMS}$	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward (See Figure 1)	$I_{F(AV)}$	10									A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	$I_{FSM}$	150									A
Maximum Forward Voltage at 5.0A per leg	$V_F$	0.70	0.80		0.85			0.92			V
Maximum DC Reverse Current at $T_j=25^\circ\text{C}$ Rated DC Blocking Voltage $T_j=100^\circ\text{C}$	$I_R$						0.05	20			mA
Typical Thermal Resistance	$R_{\theta JC}$						3.0			$^\circ\text{C} / \text{W}$	
Operating Junction and Storage Temperature Range	$T_j, T_{STG}$	-55 to +150					-55 to +175			$^\circ\text{C}$	

## RATING AND CHARACTERISTIC CURVES

