

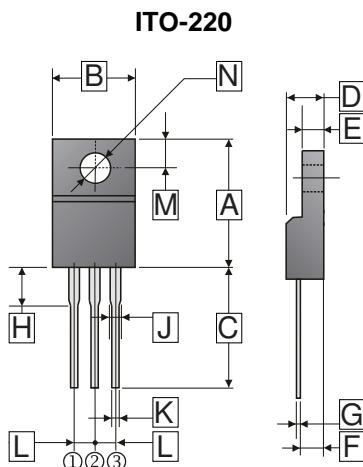
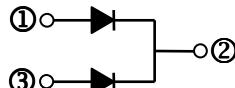
RoHS Compliant Product  
A suffix of "C" specifies halogen free

## FEATURES

- Planar MOS Schottky technology
- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

## MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Lead solderable per MIL-STD-202 method 208 guaranteed
- Polarity: As Marked
- Mounting position: Any
- Weight: 1.98 g (Approximate)



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	14.60	15.70	H	2.70	4.00
B	9.50	10.50	J	0.90	1.50
C	12.60	14.00	K	0.50	0.90
D	4.30	4.70	L	2.34	2.74
E	2.30	3.2	M	2.40	3.00
F	2.30	2.90	N	Ø 3.0	Ø 3.4
G	0.30	0.75			

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	60	V
Working Peak Reverse Voltage	$V_{RSM}$	60	V
Maximum DC Blocking Voltage	$V_{DC}$	60	V
Maximum Average Forward Rectified Current (Per Leg)	$I_F$	15	A
(Per Device)		30	
Peak Forward Surge Current, 8.3 ms single half sine-wave	$I_{FSM}$	250	A
Voltage Rate of Change (Rated $V_R$ )	$dv/dt$	10000	$V/\mu s$
Typical Thermal Resistance	$R_{\theta JC}$	4	$^{\circ}C/W$
Operating and Storage Temperature Range	$T_J, T_{STG}$	-40~150	$^{\circ}C$

## ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Typ.	Max.	Unit	Test Condition
Maximum Instantaneous Forward Voltage	$V_F$	0.37	0.39	V	$I_F = 3A, T_J = 25^{\circ}C$
		0.41	0.46		$I_F = 5A, T_J = 25^{\circ}C$
		0.49	0.53		$I_F = 10A, T_J = 25^{\circ}C$
		0.58	0.61		$I_F = 15A, T_J = 25^{\circ}C$
		0.56	-		$I_F = 15A, T_J = 125^{\circ}C$
Maximum DC Reverse Current at Rated DC Blocking Voltage <sup>2</sup>	$I_R$	-	0.5	mA	$T_J=25^{\circ}C$
		-	20		$T_J=100^{\circ}C$
Typical Junction Capacitance <sup>1</sup>	$C_J$	520	-	pF	

### NOTES:

1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Pulse Test : Pulse Width = 300  $\mu s$ , Duty Cycle  $\leq 2.0\%$ .

## RATINGS AND CHARACTERISTIC CURVES

