

PR1600 **PR1000** THRU

VOLTAGE RANGE **CURRENT**

1000 to 1600 Volt 0.5 Ampere

FEATURES

- · Fast switching.
- · Low leakage
- High forward surge current capability.
- High temperature soldering guaranteed:
- 260°C/10 seconds, 0.375" (9.5mm)lead length at 5 lbs (2.3kg) tension.

MECHANICAL DATA

- Case: transfer molded plastic
- Epoxy: UL94V 0 rate flame retardant.
- Polarity: Color band denotes cathode end.
- Lead: Plated axial lead, solderable per MIL STD 202E method 208C
- Weight: 0.012 ounce, 0.33grams

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 MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified 			DO-41			
• For capacitive load derate current by 20%						
		DD 1000	DD 1200	DD 1 400	DD 1 (00	
	SYMBOLS	PRI000	PR1200	PR1400	PR1600	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	1000	1200	1400	1600	Volts
Maximum RMS Voltage	V _{RMS}	700	840	980	1120	Volts
Maximum DC Blocking Voltage	V _{DC}	1000	1200	1400	1600	Volts
Maximum Average Forward Rectified Current,	Lun		500			n A mns
0.375" (9.5mm) lead length at $T_A = 55^{\circ}C$	¹ (AV)	500				nAmps
Peak Forward Surge Current						
8.3ms single half sine - wave superimposed on	I _{FSM}	20				Amps
rated load (JEDEC method)						
Maximum Instantaneous Forward Voltage Drop	V	1.5				Volte
at 0.5 A	▼ F					VOIIS
Maximum DC Reverse Current at rated	I.		5.0			
DC blocking voltage at $T_A = 25^{\circ}C$	^I K	5.0				(1)
Maximum Full Load Reverse current, full cycle						μA
average, 0.375" (9.5mm) lead length at $T_L = 55^{\circ}C$	I _{R(AV)}	100				
Maximum Reverse Recovery Time (Note 1)	t _{rr}	300				Ns
Typical Junction Capacitance (Note 2)	C _J	10				pF
Operating and Storage Temperature Range	TI. TSTG	(-65 to +175)				°C

NOTES:

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1.Test condition: $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR}=0.25A$





RATINGS AND CHARACTERISTIC CURVES PR1000 THRU PR1600



FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE,(V)

FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



50 ohms



FIG.4-TYPICAL JUNCTION CAPACITANCE



Web Site: www.hkmic.com