

PR1001 thru PR1007

REVERSE VOLTAGE – 50 to 1000 Volts FAST RECOVERY RECTIFIERS FORWARD CURRENT – 1.0 Ampere FEATURES DO - 41 · Low cost Diffused junction А В А · Low forward voltage drop · Low reverse leakage current • High current capability - C A D **MECHANICAL DATA** · Case: JEDEC DO-41, molding compound has DO - 41 UL flammability classification 94V-0 MAX DIM MIN • Polarity: Color band denotes cathode Α 25.4 5.20 В 4.10 • Weight: 0.326 grams (Approximate) С 0.71 Ø 0.86 Ø Mounting Position: Any D 2.00 Ø 2.70 Ø All dimension in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSO	UTE	RATINGS	•
AD001		INATIMO.	,

PARAMETER	SYMBOL	PR1001	PR1002	PR1003	PR1004	PR1005	PR1006	PR1007	UNIT
Maximum repetitive peak reverse voltage		50	100	200	400	600	800	1000	V
Maximum DC blocking voltage		50	100	200	400	600	800	1000	V
Average rectified output current per device @T _A =75 [°] C	I _(AV)	1.0							Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load		30							A
Operating temperature range	TJ	-55 to +125							°C
Storage temperature range		-55 to +150						°C	

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST C	ONDITION	SYMBOL	MBOL MAX.		UNIT	
Forward voltage	I _F = 1.0A	T _J = 25°C	VF	1.2			
Leakage current	V_{R} at rated	T _J = 25°C T _J = 100°C	I _R	5 100			
Typical junction capacitance (Note 1)		CJ	25	15	pF		

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP.	UNIT
Thermal resistance (Note 2)	RthJ _A RthJ∟ RthJ _C	55 14 12	°C/W

DYNAMIC ELECTRICAL CHARACTERISTICS

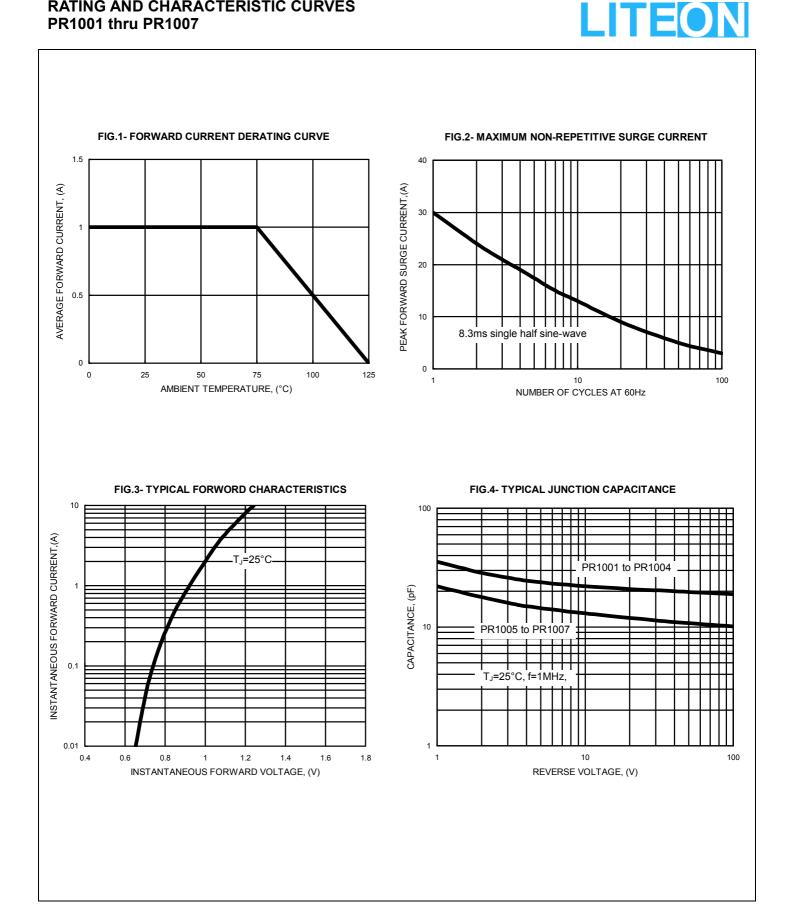
PARAMETER	TEST CONDITION	SYMBOL	MAX.			UNIT
Reverse recovery time	IF= 0.5A, I _{RR} = 0.25A, I _R =1.0A	T _{RR}	150	250	500	ns
	REV. 4, MAY-2015, KDB				3C04	

Note :

(1) Measured at 1.0MHz and applied reverse voltage of 4.0V DC

(2) Thermal resistance junction to ambient and case,

RATING AND CHARACTERISTIC CURVES PR1001 thru PR1007



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