

Schottky Barrier Rectifiers

Reverse Voltage - 45V Forward Current - 40A

FEATURES

- ♦The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ♦Guardring for overvoltage protection
- ♦Low forward voltage
- High forward surge current capability
- High temperature soldering guaranteed 260°C/10 seconds at terminals

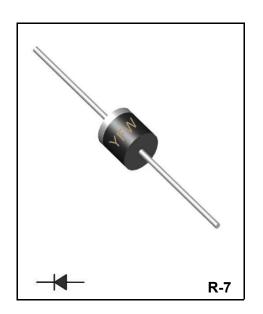


♦Case: Molded plastic body

♦Terminals : Solder plated, solderable per MIL-STD-750,Method 2026

♦Polarity : Polarity symbol marking on body

♦Mounting Position : Any



Maximum Ratings And Electrical Characteristics

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

Parameter	SYMBOLS	40SQ045	UNITS
Maximum repetitive peak reverse voltage	V _{RRM} 45		V
Maximum RMS voltage	VRMS	31.5	V
Maximum DC blocking voltage	V _{DC}	45	V
Maximum average forward rectified current	I(AV)	40.0	А
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I FSM	500.0	А
Maximum instantaneous forward voltage at 40.0A	VF	0.55	V
Maximum DC reverse current T _A =25 °C at rated DC blocking voltage T _A =100 °C	I R	0.2 20	А
Typical thermal resistance	RqJC	2.5	°C/W
Operating junction temperature range	TJ	-55 to +200	°C
Storage temperature range	Тѕтс	-55 to +150	°C



Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

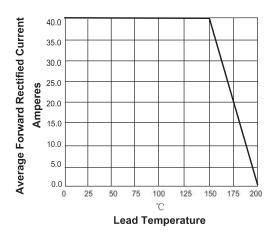


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

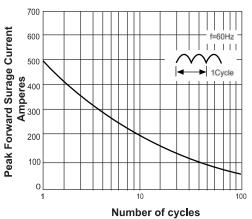


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

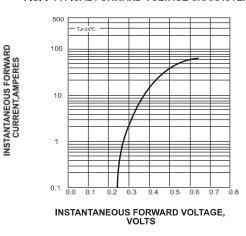
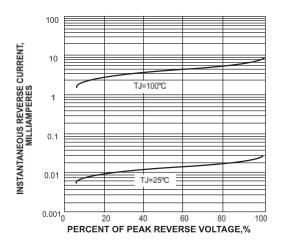


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS





Ordering information

Package	Packing Description	Packing Quantity		
R-7	ammo pack	500PCS/Inner Box 5000PCS/Carton		

Package Dimensions

R-7

Cathode Mark logo- Model name-		Millimeter(mm)		INCHES	
		Min.	Max.	Min.	Max.
FW → FW →	Α	8.60	9.10	0.340	0.360
	В	8.60	9.10	0.340	0.360
	С	1.20	1.30	0.048	0.052
	D	25.40	-	1.00	-



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