DACO SEMICONDUCTOR CO., LTD.

EM512AG THRUEM520AG

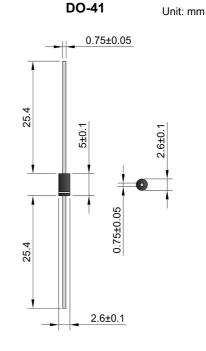
GLASS PASSIVATED RECTIFIERS

FEATURES

- Glass Passivated chip
- Low Forward Voltage Drop
- Low Leakage
- High Current Capability
- High Surge Current Capability
- Plastic Case Material has UL Flammability Classification Rating 94V-O

MECHANICAL DATA

- Case: DO-41 TYPE molded Plastic
- Terminals:Solderable per MIL-STD-750,Method 2026
- Polarity: as marked
- Weight: 0.35 grams(approx)
- Lead Free:For RoHS/Lead Free Version, Green molding compound as per IEC61249 Std



Maximum Ratings and Electrical Charateristics @T_A=25[°]C unless otherwise specified

Parameter Symbol	Symbol	EM512AG	EM514AG	EM516AG	EM518AG	EM520AG	Unit
Device marking code		EM512AG	EM514AG	EM516AG	EM518AG	EM520AG	
Maximum repetitive peak reverse voltage	V_{RRM}	1200	1400	1600	1800	2000	V
Maximum RMS voltage	V_{RMS}	840	980	1120	1260	1400	V
Maximum DC blocking voltage	V _{DC}	1200	1400	1600	1800	2000	V
Maximum average forward rectified current	I _{F(AV)}	1.5					А
Peak forward surge current:8.3ms single half sine-wave superimposed on rated load	I _{Fsm}	30					A
Maximum instantaneous forward voltage at 1A	V _F	1.20					V
Maximum leakage current $T_J = 25^{\circ}C$ Maximum leakage current $T_J = 100^{\circ}C$	I _R	5 50					uA
Typical Junction Capacitance (Note1)	CJ	25 18					pF
Typical thermal resistance (Note2)	RthA	≤55					°c/w
Operating temperature range	TJ	-55 to +175					°C
Storage temperature range	T _{STG}	-55 to +175					°C

Note: (1).Measured at 1.0MHz and applied reverse voltage of 4.0VDC

(2).Thermal resistance from junction to ambient at 9.5mm lead lenght, **P.C.B.** mounted.



RATING AND CHARACTERISTIC CUEVES

Fig. 1 Rated forward current vs. ambient temperature

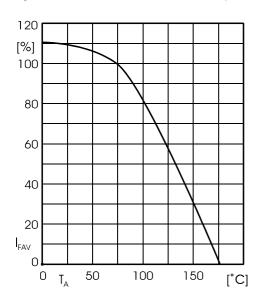
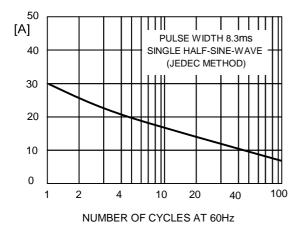


FIG. 3 - MAXIMUM NON-REPETITIVE SURGE CURRENT



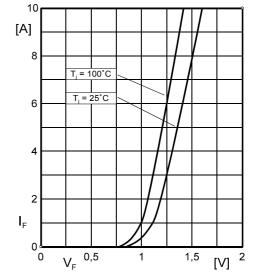
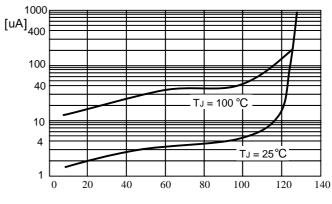


Fig. 2 Forward characteristics (typical values)

FIG.4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTGE,(%)

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